

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

In the Matter of the Application for Site Certificate
for the West End Solar Project

)
) PROPOSED ORDER ON
) APPLICATION FOR SITE
) CERTIFICATE
)

January 13, 2023

RED underline and ~~strikethrough~~ represent recommended changes from
Draft Proposed Order (DPO) to Proposed Order

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ATTACHMENTS

Attachment A: Recommended Site Certificate Conditions

(To be replaced in final order with Site Certificate)

Attachment B: Reviewing Agency Comments and Documents Relied upon in ~~DPO~~[Proposed Order](#)

~~Attachment C: Draft Proposed Order Index/Comments and Applicant Responses /Index~~

~~Attachment D: Performance Guarantee Agreement~~

Attachment B-2: Draft SPCC Plan

Attachment I-1: Draft Erosion and Sediment Control Plan and Best Management Practices

Attachment P-3: Wildlife Monitoring and Adaptive Management Plan

Attachment P-4: Draft Noxious Weed Control Plan

Attachment P-5: Draft Habitat Mitigation Plan

Attachment S-3: [Draft](#) Inadvertent Discovery Plan

Attachment U-1: Draft Traffic Management Plan

Attachment V-1: Draft Emergency Management and Wildfire Mitigation Plan

Attachment X-1: EFSC-Approved Bond and Letter of Credit Templates

ACRONYMS AND ABBREVIATIONS

AADT	Average Annual Daily Traffic
ACEC	Oregon Trail Area of Critical Environmental Concern
ACDP	Air Contaminant Discharge Permit
ADT	Average daily traffic
Applicant	EE West End Solar, LLC
ASC	Application for Site Certificate
AVA	American Viticulture Area
BGEPA	Bald and Golden Eagle Protection Act
BLM	U.S. Bureau of Land Management
BMP	Best Management Practice
BPA	Bonneville Power Administration
CadnaA	Computer Aided Noise Abatement
CFR	Code of Federal Regulations
Cfs	Cubic feet per second
CON	Construction
Council	Oregon Energy Facility Siting Council
CR	Country Road
CSZ	Cascadia Subduction Zone
CTUIR	Confederated Tribes of the Umatilla Indian Reservation
CTWS	Confederated Tribes of the Warm Springs Reservation of Oregon
dBA	A-weighted decibel
Department	Oregon Department of Energy
demo	Demolish
DEQ	Oregon Department of Environmental Quality
DC	Direct current
DOGAMI	Oregon Department of Geology and Mineral Industries
DPO	Draft Proposed Order
DSL	Oregon Department of State Lands
EFSC	Oregon Energy Facility Siting Council
EFU	Exclusive Farm Use
EMWMP	Emergency Management and Wildfire Mitigation Plan
EPA	United States Environmental Protection Agency
ESCP	Erosion and Sediment Control Plan
ESEE	Environmental, Socioeconomic and Energy
ESS	Energy storage system
FAA	Federal Aviation Administration
FACP	Fire alarm control panel
FHWA	Federal Highway Administration
FSS	Fire Safety System
GEN	General Conditions
GPS	Global Positioning System
HMA	Habitat Mitigation Area
HMP	Habitat Mitigation Plan
HMBP	Hazardous Materials Business Plan
hp	Horsepower

HPROSMP	Hermiston Parks, Recreation and Open Space Master Plan
I-82	Interstate 82
I-84	Interstate 84
IBC	International Building Code
IDP	Inadvertent Discovery Plan
IOU	Investor owned utility
ISO	International Organization for Standardization
km	kilometers
kV	kilovolts
LCDC	Land Conservation and Development Commission
LLC	Limited liability company
LOS	Level of service
MGD	Million gallons per day
MW	Megawatt(s)
NOI	Notice of Intent
NFPA	National Fire Protection Association
NHD	National Hydrologic Database
NOAA	Northwest Interagency Coordination Center
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSR	Noise sensitive receptor
NWCC	Northwest Interagency Coordination Center
NWI	National Wetlands Inventory
NWR	National Wildlife Refuge
O&M	Operations and Maintenance
OAR	Oregon Administrative Rule
OAH	Oregon Office of Administrative Hearings
ODA	Oregon Department of Agriculture
ODFW	Oregon Department of Fish and Wildlife
ODOE	Oregon Department of Energy
ODOT	Oregon Department of Transportation
ONHT	Oregon National Historic Trail
OPRD	Oregon Parks and Recreation Department
OPS	Operational Conditions
ORBIC	Oregon Biodiversity Information Center
ORS	Oregon Revised Statutes
OSSC	Oregon Structural Specialty Code
OWRD	Oregon Water Resources Department
Parent company	Eurus Energy America Corporation
pASC	Preliminary Application for Site Certificate
PRE	Preconstruction Conditions
PRO	Preoperational Conditions
Proposed facility	West End Solar Project
PSA	Predictive service area
RAI	Request for Additional Information
RET	Retirement Conditions
ROW	Rights-of-way

RPS	Renewable Portfolio Standard
RV	Recreational vehicle
SAG	Special Advisory Group
SCADA	Supervisory Control and Data Acquisition system
SC	Sensitive critical
SEIA	Solar Energy Industries Association
SHPO	State Historic Preservation Office
SLIDO-2	Statewide Landslide Information Database for Oregon, Release 2
SMBC	Sumitomo Mitsui Banking Corporation
SPCC	Spill Prevention Control and Countermeasure Plan
T&E	Threatened and Endangered
TSP	Transportation System Plan
UCDC	Umatilla County Development Code
UCFD #1	Umatilla County Fire District #1
UEC	Umatilla Electric Cooperative
US-395	U.S. Route 395
USACE	U.S. Army Corps of Engineers
USGS	United States Geological Survey
USFWS	United States Fish and Wildlife Service
U.S.	United States
V/C	Volume to capacity
VOC	Volatile Organic Compound
WGS	Washington Ground Squirrel
WPCF	Water Pollution Control Facilities
ZVI	Zone of Visual Influence

1 **I. INTRODUCTION**
2

3 The Oregon Department of Energy (Department) issues this ~~draft~~ proposed order (~~DPO~~) in
4 accordance with Oregon Revised Statute (ORS) 469.370(4~~+~~), based on its review of the draft
5 proposed order (DPO) on the Application for Site Certificate (ASC) for the proposed West End
6 Solar Project (proposed facility), comments received on the record of the DPO public hearing,
7 agency consultation on issues raised on the record of the DPO public hearing, and comments
8 and recommendations received during review of the preliminary and complete ASC from state
9 agencies, local governments, and tribal governments. This ~~DPO~~-proposed order includes
10 recommended conditions of approval for inclusion in the site certificate to ensure or maintain
11 compliance with applicable rules and standards during proposed facility construction, operation
12 and retirement. Based upon its review, as presented in recommended findings of fact,
13 conclusions of law and conditions, the Department recommends Council approve the ASC and
14 issue a site certificate for the proposed facility. This proposed facility is processed under the
15 Council’s rules for Expedited Review of Small Capacity Facilities because it would be less than
16 100 MW generating capacity, discussed further in this order.

17
18 EE West End Solar, LLC (applicant), a wholly owned subsidiary of Eurus Energy America
19 Corporation, seeks Energy Facility Siting Council (EFSC or Council) approval to construct and
20 operate up to 50 megawatts (MW) of solar photovoltaic energy generation facility components,
21 and related or supporting facilities including: a 70 MW lithium ion energy storage system,
22 collector substation and switchyard substation located within a 15 acre area, a 34.5-kV collector
23 line system, Supervisory Control and Data Acquisition (SCADA) System, driveway and access
24 roads, an Operation and Maintenance (O&M) enclosure located near the substations, and a
25 construction staging area. The entire site boundary would be enclosed in a 6 to 10-foot
26 perimeter fence. The applicant does not propose a transmission line within the ASC, yet
27 proposes to connect to one of three existing transmission line rights-of-way that run through
28 the proposed site boundary or adjacent to the site boundary; the Bonneville Power
29 Administration’s McNary to Roundup 230-kilovolt line, PacifiCorp’s Pendleton to Hermiston 69-
30 kilovolt line, and a Umatilla Electric Cooperative 115-kilovolt line.

31
32 The proposed facility would occupy up to 324 acres on Exclusive Farm Use zoned land, including
33 approximately 261 acres of high-value farmland¹ under ORS 195.300(10)(f) because of the
34 location within the designated Columbia Valley American Viticulture Area (AVA) designation
35 and criteria. The proposed facility site does not include high-value farmland as defined under
36 ORS 195.300(10)(a) (soils) or ORS 195.300(10)(c) (water rights). The proposed facility site would
37 be located entirely in northwestern Umatilla County, approximately one mile east of the city
38 limits of Hermiston, Oregon and one mile north of the city limits of Stanfield, Oregon.

39
40 In addition to the conditions recommended in this ~~DPO~~-proposed order, the applicant would be
41 subject to the applicable substantive criteria in effect on the date the preliminary ASC (pASC)
42 was submitted, the rules and standards of the Council and state laws in effect on the date the

¹ WESAPDoc3-11 ASC Exhibit K Land Use 2022-10-22. Table K-2.

1 site certificate is executed.² Under ORS 469.401(2), the site certificate shall require the Council
2 and applicant to abide by state law and the rules of the Council in effect on the date the site
3 certificate is executed, except upon a clear showing of a significant threat to public health,
4 safety, or the environment that requires application of later-adopted laws or rules, then Council
5 may require compliance with such later-adopted laws or rules. The Department recognizes that
6 many specific tasks related to the design, construction, operation, and retirement of the
7 proposed facility would be undertaken by the applicant’s agents or contractors. Nonetheless,
8 the applicant would be responsible for ensuring compliance with all provisions of the site
9 certificate.

10
11 The Council does not have jurisdiction over matters that are not included in and governed by
12 the site certificate, including design-specific construction or operating standards and practices
13 that do not relate to siting, as well as matters relating to employee health and safety, building
14 code compliance, wage and hour or other labor regulations, or local government fees and
15 charges.³ However, nothing in ORS chapter 469 shall be construed to preempt the jurisdiction
16 of any state agency or local government over matters that are not included in and governed by
17 the site certificate or amended site certificate.⁴ Also outside the Council’s jurisdiction are
18 matters of land-acquisition, land purchases, land leases and right-of-way easements.

19
20 A site certificate is a binding agreement between the State of Oregon and the applicant,
21 authorizing the applicant to design, construct, operate, and retire a facility within an approved
22 site, incorporating all conditions imposed by the Council in the site certificate.⁵ A site certificate
23 issued by EFSC binds the state and all counties, cities and political subdivisions of Oregon. Once
24 EFSC issues a site certificate, any affected state agency, county, city or political subdivision with
25 an applicable permit identified in the ASC and to be governed by the site certificate, must, upon
26 submission by the applicant of the proper applications and payment of the proper fees, but
27 without hearing or other proceeding, promptly issue the permits, licenses and certificates
28 addressed in the site certificate.⁶ The Council has continued authority over the site for which
29 the site certificate is issued and may inspect, or direct Department staff to inspect, or request
30 another state agency or local government to inspect, the site at any time in order to ensure
31 that the facility is being operated consistently with the terms and conditions of the site
32 certificate.⁷

33 **II. PROCEDURAL HISTORY**

34 **II.A Expedited Review**

35
36
37

² The pASC and payment under ORS 469.421(3) we received by the Department on November 05, 2021.

³ 469.401(4).

⁴ Id.

⁵ ORS 469.300(26).

⁶ ORS 469.401(3).

⁷ ORS 469.430.

1 On December 4, 2020, the Department received a Request for Expedited Review for a Small
2 Capacity Facility for the West End Solar Project, a solar photovoltaic energy generation project
3 with a peak generating capacity of approximately 50 megawatts (MW). The Department
4 reviewed the request and on December 17, 2020 notified the applicant (EE West End Solar, LLC)
5 that the request for expedited review of the application for site certificate (ASC) for the West
6 End Solar Project was granted.⁸

7
8 Under the expedited review process, an applicant is not required to submit a Notice of Intent.
9 In an expedited review, an applicant submits a preliminary application for a site certificate
10 (pASC) based on the OAR 345-021-0010 informational requirements. The Department issues a
11 Project Order after reviewing the pASC. Procedurally, submission of the ASC and the
12 Department's review of the ASC are the same for expedited review as for non-expedited review
13 of ASCs.

14 15 **II.B Project Order**

16
17 Pursuant to ORS 469.370(10), OAR 345-015-0160, and OAR 345-015-0300(3) the Department
18 issued a Project Order on February 10, 2022, which specified the state statutes and
19 administrative rules, and local, state, and tribal laws, regulations, ordinances and other
20 requirements applicable to the siting of the facility and is discussed further in this order. The
21 Project Order outlines the ASC requirements from OAR 345-021-0010 that are relevant to the
22 proposed facility. Under OAR 345-015-0160, the Project Order also establishes analysis areas
23 for the proposed facility which are areas that may contain resources that the proposed facility
24 may affect and that must be evaluated in the ASC.⁹ A proposed facility may have different
25 analysis areas for different types of resources. Further, the Department considered the size and
26 type of the proposed facility in determining the analysis areas the applicant must evaluate in
27 the ASC.¹⁰ Finally, under OAR 345-015-0160(3), the Department or Council may amend the
28 Project Order at any time.

29 30 **II.C Application for Site Certificate**

31
32 The Department received the preliminary application for site certificate (pASC) and payment
33 under ORS 469.350 and ORS 469.421 on November 5, 2021. The Department distributed the
34 pASC to reviewing agencies and requested pASC review and comment by December 17, 2021.
35 Additionally, the Department posted an announcement on its project website notifying the
36 public that the pASC had been received.

37
38 On April 22, 2022, the Council appointed Alison Greene Webster, Senior Administrative Law
39 Judge at the Oregon Office of Administrative Hearings (OAH), as the hearing officer to conduct

⁸ OAR 345-015-0300(4).

⁹ OAR 345-015-0160(1)(f) and OAR 345-001-0010(2).

¹⁰ OAR 345-015-0160(2).

1 the public hearing on the draft proposed order (DPO) and to conduct the contested case
2 proceeding.¹¹

3
4 Pursuant to OAR 345-015-0190(1), following review of the pASC, the Department determined
5 the pASC to be incomplete and issued requests for additional information (RAIs) on January 3,
6 2022 (RAI1). The applicant responded to the Department's information requests on May 27,
7 2022, June 1, 2022, June 10, 2022 and June 20, 2022 (including revised pASC exhibits) in
8 response to RAI1 and reviewing agency comments. On June 30, 2022, the Department issued
9 additional RAI's, and on August 3, 2022 the Department notified the applicant of the new rules
10 under OAR 345-022-0115 and OAR 345-021-0010(1)(v) - Wildfire Prevention and Risk Mitigation
11 that are applicable to the pASC/ASC for the proposed facility. The Department received
12 additional responses to the RAIs from the applicant on August 11 and September 7, 2022. After
13 reviewing the applicant's responses and revised pASC exhibits, the Department determined the
14 pASC to be complete on September 19, 2022.^{12,13} The applicant submitted an electronic copy of
15 the ASC on September 26, 2022 and filed the complete ASC on September 28, 2022.¹⁴

16
17 Public Notice of the complete ASC was issued via U.S. Mail to property owners within 500-feet
18 of the property on which the proposed facility site boundary would be located, electronically
19 via ClickDimensions to all individuals signed up to receive email notices from the Department
20 regarding the proposed facility or all EFSC facilities, and published in the Hermiston Herald, a
21 newspaper of general circulation in the vicinity of the proposed facility on September 28,
22 2022.^{15,16} The Department held a remote public information meeting on the complete ASC on
23 October 10, 2022. Pursuant to OAR 345-015-0200, the Department distributed electronic copies
24 of the complete ASC to reviewing agencies, along with a request for agency reports on the
25 complete ASC on September 27, 2022. The Department received comments from four agencies,
26 all of which are provided in Attachment B of this order and referenced in Sections *IV.H Fish and*
27 *Wildlife Habitat*, *IV.J Threatened and Endangered Species* and *IV.R.2. Removal-Fill Law*,
28 respectively, of this order. As indicated in the Notice of the ASC, the Department and applicant
29 held a remote informational meeting on October 10, 2022.¹⁷

30
31 Under OAR 345-015-0190(9), while the Department drafted the DPO, continued to review the
32 ASC, and consulted with reviewing agencies, the Department identified the need for additional
33 information following the determination of completeness. From October 22 to October 25,

¹¹ WESAPPD0c10 Hearing Officer Appointment 2022-04-22.

¹² Pursuant to OAR 345-015-0190(5), an ASC is complete when the Department finds that the applicant has submitted information adequate for the Council to make findings or impose conditions on all applicable Council standards.

¹³ WESAPPD0c-1 ASC Determination of Complete Application_2022-09-19.

¹⁴ WESAPPD0c5 ASC Filing Date Confirmation 2022-09-28.

¹⁵ WESAPPD0c3-6 ASC Exhibit F Property Owners 2022-09-28, Figure F-1. Updated property owner information was obtained by the applicant from Umatilla County on September 21, 2022.

¹⁶ WESAPPD0c2-1 ASC Public Notice-Mailing-Newspaper Proof-Click D 2022-09-28.

¹⁷ WESAPPD0c2 Complete ASC Public Notice 2022-09-28.

1 2022, the applicant filed revised ASC Exhibits which were posted on the Department’s project
2 webpage.¹⁸

3

4 **II.D Council Review Process**

5

6 Draft Proposed Order on ASC

7

8 The Department issued the DPO on October 26, 2022, initiating a 22-day comment period. The
9 Council-appointed, third-party hearing officer ~~will conduct~~ed a public hearing on the DPO
10 ~~starting at 5:30 P.M.~~ on November 17, 2022 at Oxford Inn and Suites – Walleye Oxford Room in
11 Hermiston, Oregon with opportunities for remote and in-person participation. The public
12 hearing location was selected — representing because it represents the geographic area that
13 would be affected by the proposed facility. ~~In addition to accepting written comments during~~
14 ~~the comment period, the hearing officer will also accept oral testimony at the public hearing.~~

15

16 On the record of the DPO public hearing, the Department received comments from two state
17 agencies, 1 tribal government, 2 members of the public, EFSC members and the
18 applicant/landowners on behalf of the applicant. All comments and applicant response to
19 comments were provided to Council in preparation for the November 18 and December 16,
20 2022 Council meetings.¹⁹

21

22 Prior to the conclusion of the November 17, 2022 public hearing, the applicant requested that
23 the Hearing Officer extend the record to December 2, 2022 to allow the applicant to provide
24 additional responses to issues raised by EFSC members during the November 17, 2022 DPO
25 public hearing.

26

27 A summary of DPO comments and the Department’s recommendation as incorporated in the
28 proposed order are presented in Table A-1 below. Consistent with OAR 345-015-0230(2),
29 following the Council’s review of the DPO, the Department consulted with reviewing agencies
30 including Oregon Department of Water Resources (DWR), Oregon Depart of Agriculture (ODA)
31 and the Special Advisory Group (Umatilla County) to support the evaluation of comments and
32 recommendations presented in the proposed order.

¹⁸ WESAPPDoc3, 3-1, 3-4, 3-13, 3-16, 3-11, 3-22, 3-25 2022-09-28; Exhibits: A, B, D, M, P, K, V, Y

¹⁹ The following record documents are the DPO comments and applicant responses DPO comments: WESAPPDoc3
Reviewing Agency Comment ODFW Somers 2022-11-03; WESAPPDoc3-1 Applicant DPO Comment Curulla 2022-
11-14; WESAPPDoc3-2 Reviewing Agency Tribal Gov DPO Comment CTUIR Farrow Ferman 2022-11-16;
WESAPPDoc3-3 Public DPO Comment Thompson 2022-11-17; WESAPPDoc3-4 Public DPO Comment Little 2022-11-
17; WESAPPDoc3-5 Reviewing Agency Comment ODAV Pike 2022-11-17; WESAPPDoc3-6 Applicant Response DPO-
EFSC Comments 2022-11-17 and 2022-12-02.

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
<i>State and Tribal Government Agencies</i>				
<u>ODFW</u>	<u>Draft Habitat Mitigation Plan (HMP) (DPO Attachment P-5)</u>	<u>Draft HMP is not consistent with mitigation goals for Category 3, 4 and 5; however, habitat quality of site is lower than Category 3 and 4 due to its limited functionality and connectivity</u>	<u>IV.H Fish and Wildlife Habitat (pp. 106-119)</u>	<u>Section IV.H., Fish and Wildlife Habitat, Recommended Fish and Wildlife Habitat Condition 1: Recommends that F&W Condition 1 include an opportunity for the applicant to update the habitat categorization referenced in the HMP to Category 5; commitments for mitigation area size and enhancement actions should be maintained as sufficient to meet the mitigation goals for Category 5 habitat.</u>
<u>CTUIR</u>	<u>Inadvertent Discovery Plan (IDP) (DPO Attachment S-3) and Noxious Weed Control</u>	<u>Draft IDP should be updated to reflect current contacts for CTUIR, Oregon State Police and CIS; and, requests confirmation of applicant’s plan for noxious weed control</u>	<u>IV.K Historic, Cultural and Archeological Resources (pp. 130 – 141); and, IV.H. Land Use (p. 82)</u>	<u>Section IV.K., Historic, Cultural, and Archeological Resources: Recommended findings for Historic, Cultural, and Archeological Resources Condition 1 describe that the draft IDP reviewed by Council includes updated contact information identified by CTUIR; condition language modified to require another update of relevant contacts prior to construction.</u> <u>DPO Attachment P-4 includes the applicant’s draft Noxious Weed Control Plan; plan identifies pre-construction noxious weed survey and treatment, and</u>

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
				<u>monitoring, treatment and control methods to be implemented during construction and operation. No changes made in response to CTUIR comment.</u>
<u>ODAV</u>	<u>Review of facility structures for potential impacts to navigable airspace</u>	<u>Recommends a condition requiring that applicant obtain FAA and ODAV review of structures</u>	<u>IV.M.6 Public Services, Air Traffic (pp. 168- 170)</u>	<u>No Proposed Order Revision: Recommended Public Services Condition 3 is consistent with ODAV comments.</u>
<u>Public Comments</u>				
<u>G. Thompson</u>	<u>Opposes proposed facility</u>	<u>Concerns related to project impacts to good quality farmland and wildlife</u>	<u>NA</u>	<u>No Proposed Order Revision: Comment did not contain sufficient detail to allow the Department to substantively respond.</u>
<u>C. Little</u>	<u>Supports proposed facility</u>	<u>General support of solar project to support local economies and help meet state reviewable energy policies/laws</u>	<u>NA</u>	<u>No Proposed Order Revision: Comment did not contain sufficient detail to allow the Department to substantively respond.</u>
<u>EFSC Member Comments</u>				
<u>H. Jenkins</u>	<u>Land Use, Goal 3 exception</u>	<u>Expressed concerns about using arable soils for an energy facility rather than preserving for agricultural use and requested additional reasons/evidence to support the proposed Goal 3 exception “reason” that the proposed</u>	<u>IV.E.3 Land Use, Goal 3 Exception (pp. 68-82)</u>	<u>Section II.D. describes the Department’s post-DPO evaluation conducted in consultation with Oregon Department of Agriculture and conclusion that the analysis recommended by Council is a significant change in the “test” applied to the evaluation of the adequacy of the “reason” compared to prior goal exceptions taken by</u>

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
		<u>facility would result in a minimum direct impact to agriculture. Requested a regional assessment to support arguments that the subject tracts are not suitable for agriculture.</u>		<u>Council which relied, in part, on the same “minimal impact to agriculture” reason. Therefore, it is recommended that Council consider whether to apply this “test” in a rulemaking or policy to allow applicants/certificate holders an adequate opportunity to understand and complete the evaluation.</u>
<u>K. Howe</u>	<u>Land Use, Goal 3 exception</u>	<u>Information in the record is confusing and refers to adjacent agricultural activity on soils of same quality as site – requests that information submitted at the hearing be applied to ASC Exhibit K analysis to ensure the record is accurate and clear.</u>		<u>Section IV.E1.b. Land Use, Applicable Substantive Criteria and Goal Exception: Updated section based on additional facts and evidence provided by applicant (see below)</u>
<u>C. Condon</u>	<u>Organizational Expertise and concerns over the “Act”</u>	<u>Applicant should clarify how the applicant, an LLC, can rely on the parent company in light of the limitations established in the definition of the “Act” as referenced in ASC Exhibit A Attachment A-3</u>	<u>IV.B Organizational Expertise (pp. 25-31)</u>	<u>Section IV.B Organizational Expertise, Recommended Organizational Expertise Condition 1: Organizational Expertise Condition 3(c)(4) authorizes the Department to review site certificate compliance status to re-evaluate the adequacy of the decommissioning estimate. This will provide the State protection if the applicant went bankrupt or the Council opted to terminate the site</u>

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
				<u>certificate and the applicant was unable to fulfil its facility decommissioning obligation</u>
<i>Applicant Comments (includes comments from underlying landowners on behalf of applicant)</i>				
<u>R. Curulla, EE West End Solar, LLC</u>	<u>Organizational Expertise Condition 5</u>	<u>Requests to revise recommended Organizational Expertise Condition 5 to remove requirement to provide the Department the selected contractor’s compliance history</u>	<u>IV.B Organizational Expertise (pp. 25-31)</u>	<u>No Proposed Order Revision: Department recommends that the condition be maintained. The Department disagrees that this request is unreasonably burdensome as the information is readily available from construction contractors and is recommended due to the lack of demonstrated experience of the applicant in Oregon. The Department intends to rely on the results of the selected contractor’s compliance history to inform the level of construction compliance oversight/inspections by the Department.</u>
	<u>Land Use Condition 2(d) (parking lot design)</u>	<u>Requests to revise recommended Land Use Condition 2(d) to allow Umatilla County to approve alternative parking lot design requirements, if needed.</u>	<u>IV.E Land Use (pp. 55- 56)</u>	<u>Section IV.E.1.b. Land Use, IV.E.1 Applicable Substantive Criteria, Recommended Land Use Condition 2(d): Department consulted with Umatilla County and recommends that UCDC 152.562(l) (1-7) be removed from the list of applicable substantive criteria in Table 2 and that the condition imposing parking lot standards be removed in proposed order</u>

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
				<u>based on inapplicability of the requirement for non-public use facility.²⁰</u>
	<u>Land Use Condition 12 (setback for avoidance of impacts to irrigated agriculture)</u>	<u>Requests to revise recommended Land Use Condition 12 to correct tax lot reference applied to setback.</u>	<u>IV.E Land Use (pp. 82- 83)</u>	<u>Section IV.E.1.b. Land Use, Recommended Land Use Condition 12: Department agrees that the condition contained an erroneous taxlot reference and recommends the condition be amended to reference taxlot 4N2900000300 rather than 4N29000001700 (see DPO Figure 4)</u>
	<u>T&E Species Condition 1</u>	<u>Requests revisions to recommended T&E Species Condition 1 for sub(a) to allow desktop analysis for areas extending outside the site boundary where applicant land access has not been obtained; and (c) to remove explanation of WGS colonies and burrows.</u>	<u>IV.I Threatened and Endangered Species (pp. 122-123)</u>	<u>Section IV.I., Threatened and Endangered Species, Recommended Threatened and Endangered Species Condition 1: Department agrees that the condition should be amended per applicant comment – the revisions are consistent with the methods employed for the ASC evaluation and were discussed/concurred with by ODFW.</u>
	<u>T&E Species Condition 2</u>	<u>Requests revisions to recommended T&E Species Condition 2 to remove the requirement for delineation</u>	<u>IV.E Land Use (pp. 82- 83)</u>	<u>Section IV.I., Threatened and Endangered Species, Recommended Threatened and Endangered Species Condition 2:</u>

²⁰ WESAPDoc1-1 Proposed Order Agency Consultation SAG Umatilla County 2022-12-09. Umatilla County confirmed that UCDC 152.562(I) (1-7) consists of parking lot design standards intended to apply to publicly accessible businesses and therefore would not apply to the proposed facility. This criteria has been removed from list of “applicable substantive criteria” in Table 2 of the proposed order and from the land use evaluation in Section IV.E.1 (resulting in removal of recommended Land Use Condition 2(d)).

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
		<u>and avoidance of Category 2 WGS habitat.</u>		<u>Department agrees that the condition should be amended per applicant comment - delineation for avoidance and avoidance requirements do not apply to Category 2 WGS habitat impacts, only Category 1 WGS habitat.</u>
<u>S. & W. Scott</u>	<u>Land Use, Goal 3 exception and farm impacts</u>	<u>Testimony describing that they farmed land in 2013 and 2015; best crop occurred in 2013 resulting in 14 bushels an acre which did not pay for the inputs; in 2015, they produced 11 bushels an acre at \$5.50 a bushel. Area is within critical groundwater restricted area and obtaining water for irrigation is virtually impossible. Confirmed that adjacent lands with same soil type are irrigated.</u>	<u>IV.E Land Use (pp. 82- 83)</u>	<u>Section IV.E1.b. Land Use, IV.E.3 Goal Exception: Recommends that the testimony and facts presented be incorporated into findings of fact for Goal 3 exception analysis.</u>
<u>Prior</u>		<u>Testimony describing that he has owned the property since 1990 and has never attempted to farm the parcel because it is outside of irrigation water district</u>		<u>Section IV.E1.b. Land Use, IV.E.3 Goal Exception:</u>

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
		<p><u>boundaries. He affirmed that his adjacent properties where high value crops are produced are indeed irrigated and that he does not have enough water rights to irrigate the subject properties and that the value of the land is not viable to move water right on to farm.</u></p>		
<u>Applicant</u>		<p><u>Provided a copy of the East Improvement District Recorded Landowner Notice, which provides documentation of all of the parcels located in the East Improvement Irrigation District. Pages 92-94 of the PDF are the pertinent sections to Art Prior’s land holdings. Page 94 lists the tax lots he owns that are in the East Improvement District – including the two tax lots (Tract 3 and Tract 6) located east of the West End Solar site boundary that have recently been developed for irrigated agricultural use. The tax lot Mr.</u></p>		<p><u>Section IV.E1.b. Land Use, IV.E.3 Goal Exception:</u></p>

Table A-1: Summary of DPO Comments and Department Recommendations (as represented in Proposed Order)

<u>Commenter</u>	<u>Comment Subject</u>	<u>Comment Summary</u>	<u>DPO Applicability (Section Reference)</u>	<u>Recommendations, Responses, and Location in Proposed Order</u>
		<u>Prior owns within the site boundary (4N29C00000500) is not listed in this document.</u>		
		<u>Provided a map from the Oregon Water Resources Department of the Groundwater Restricted Areas in North Umatilla County, Stage Gulch area, where the facility and adjacent properties are located.</u>		<u>Section IV.E1.b. Land Use, IV.E.3 Goal Exception:</u>
<u>Acronyms:</u> <u>CTUIR = Confederated Tribes of Umatilla Indian Reservation</u> <u>FAA = Federal Aviation Administration</u> <u>LCIS = Oregon Legislative Commission on Indian Services</u> <u>ODAV = Oregon Department of Aviation</u> <u>ODFW = Oregon Department of Fish and Wildlife</u>				

1 On December 16, 2022, Council reviewed the DPO, issues raised in comments received on the
2 record of the DPO and applicant response. Council provided comments to the Department
3 regarding Organizational Expertise Condition 1, Retirement and Financial Assurance Condition
4 3(c)(iv) and the Goal 3 exception request (specifically the evaluation of the “minimal direct
5 impacts to agriculture on the subject tracts” reason provided in support of the “reasons”
6 exception request).²¹

7
8 Council comments and recommendations described above are incorporated in Section IV
9 below, as represented in Table A-1.

10
11 As described in Table A-1, Council’s comments on the Goal 3 exception request expressed
12 concern that one of the four reasons proposed for the “reasons” exception had not been
13 adequately evaluated.

14
15 To address the Council’s comments, the Department consulted with Oregon Department of
16 Agriculture to determine an approach in evaluating soil capability on a regional basis. To
17 substantively and adequately evaluate the question, the following information would be
18 needed:

- 19
20 • Tract and parcel level data extending approximately 9 miles east, 7 miles north, and 3.5
21 miles south and west (this would follow developed breaks including City of Hermiston,
22 I-84 and I-207 to I-730 and then to the edge of topographic features at which the land
23 use pattern changes)
 - 24 ○ This resulted in more than 20,000 parcels and over 200,000 acres
- 25 • Then, to evaluate the question of comparable soil capability, for the over 20,000
26 parcels, 1) a complete history of water rights including active, cancelled and transferred
27 rights; NRCS soil classification evaluated based on complete water right history;
28 cultivation and grazing history for more than 15 years; and status of Conservation
29 Recovery Program (CRP) enrollment within the 15 year evaluation period.

30
31 CRP enrollment and a complete 15-year land use history (cultivation or grazing status) for more
32 than 20,000 parcels is not information that is readily and publicly available, and necessitates, to
33 some degree, on the ground surveys and landowner consultation. The scope of this assessment
34 is significant and not one that the Department could complete if the full extent were to be
35 completed.

36
37 The Department evaluated Council’s prior findings and analysis for past exceptions taken for
38 solar facilities where “minimal impacts to agriculture” was a reason determined, in part, to
39 justify the goal exception. Based on prior Council Final Orders²² approving goal exceptions, none

²¹ Final Approved EFSC Meeting Minutes 2022-12-16.

²² 2018 Final Order on ASC for Boardman Solar Energy Facility (p.94); 2020 Final Order on ASC for Bakeoven Solar Project (pp.109-111); 2018 Final Order on RFA1 for Carty Generating Station (pp.65-73); 2021 Final Order on ACS

1 relied upon or required an evaluation similar to the scope of the evaluation described above.
2 Therefore, the Department recommends Council maintain consistency with the relevant
3 findings and analysis in this order and of its past orders, as applicable to the “minimal impacts
4 to agriculture” reason, and evaluate whether it wants to recommend that the “minimal impacts
5 to agriculture” reason be evaluated as identified above either through rulemaking or policy
6 directive to the Department. This would allow both the Department and applicants/certificate
7 holders an adequate opportunity to weigh whether it believes it could complete such an
8 evaluation, propose alternate evaluations, and whether the results would be favorable enough
9 to continue supporting the reason.

10
11 *Proposed Order on ASC*

12
13 On January 13, 2023, the Department ~~Following the close of the record of the public hearing~~
14 ~~and Council review of the DPO, the Department will~~ issued a ~~p~~Proposed ~~o~~Order, taking into
15 consideration Council comments, evidence and arguments provided by the applicant in
16 responses to issues raised ~~any comments received~~ “on the record of the public hearing” (i.e.
17 oral testimony provided at the public hearing and written comments received by the
18 Department from October 26 through November 17, 2022), and agency consultation.

19
20 Concurrent with the issuance of the Proposed Order, the Department ~~will~~ issued a Notice of
21 Proposed Order and Contested Case, establishing a deadline of February 13, 2023 for eligible
22 individuals to submit a petition for party status in the contested case proceeding.²³

23
24 *Contested Case Proceeding on the Proposed Order on ASC*

25
26 Only those persons who comment~~ed~~ in person or in writing on the record of the DPO public
27 hearing may request to participate as a party or limited party in the contested case proceeding.
28 ~~Additionally, I~~ to raise an issue in a contested case, the issue must be within Council jurisdiction,
29 and the person must have raised the issue on the record of the public hearing with “sufficient
30 specificity to afford the Council, the department, and the applicant an adequate opportunity to
31 respond.”²⁴ At the conclusion of the contested case proceeding, the hearing officer must issue a
32 proposed contested case order stating the hearing officer’s findings of fact, conclusions of law
33 and recommended site certificate conditions on the issues in the contested case. The Council
34 may adopt, modify or reject the hearing officer’s proposed contested case order. If adopted or
35 modified, the order would then be incorporated into the Proposed Order for Council’s review.

36
37 *Final Order on the ASC*

38

for Madras Solar Energy Facility (pp.102-103); 2019 Final Order on Amendment 4 of Montague Solar Facility (p.97);
2022 Final Order on ASC for Obsidian Solar Center (p.86); 2019 Final Order on Amendment 4 of Wheatridge Wind
Energy Facility (pp.63-64).

²³ See ORS 469.370(4) and OAR 345-015-0014.

²⁴ ORS 469.370(3).

1 Following the contested case proceeding, the Council will take action to either modify or
 2 approve the Proposed Order as the Final Order and issue a site certificate; or, may reject the
 3 Proposed Order, denying the Final Order and issuance of a site certificate, based upon the
 4 standards adopted under ORS 469.501, and any additional state statutes, rules, or local
 5 government regulations or ordinances determined to be applicable to the proposed facility in
 6 the Project Order.²⁵ The Council’s Final Order is subject to judicial review by the Oregon
 7 Supreme Court. Only a party to the contested case proceeding may request judicial review and
 8 the issues on appeal are limited to those raised by parties or limited parties in the contested
 9 case proceeding. A petition for judicial review must be filed with the Supreme Court within 60
 10 days after the date of service of the Council’s final order or within 30 days after the date of the
 11 petition for rehearing is denied or deemed denied.²⁶

12
 13 **III. DESCRIPTION OF THE FACILITY**

14
 15 The information presented in ~~this~~ Table A-2 below and in this section is based upon details
 16 provided in ASC, primarily from Exhibits B and C. Section III.A., *Facility Components* describes
 17 proposed facility components and Section II.B., *Facility Location* describes the proposed
 18 location and site boundary of the facility.
 19

Table A-2 : Facility Component Summary

<u>Component and Design Standard</u>	<u>No.</u>	<u>Unit</u>
<u>Solar Components</u>		
<u>Solar micrositing area</u>	<u>324</u>	<u>acres</u>
<u>PV Solar Modules</u>		
<u>Approx. Total number</u>	<u>180,000</u>	<u>modules</u>
<u>Max Height at full-tilt</u>	<u>16</u>	<u>feet</u>
<u>Posts</u>		
<u>Approx. Total number</u>	<u>33,000</u>	<u>posts</u>
<u>Inverters/Transformer Units</u>		
<u>Approx. Total number</u>	<u>25</u>	
<u>Noise level, per unit</u>	<u>88</u>	<u>dBA</u>
<u>Transformer oil-containing capacity</u>	<u>550</u>	<u>gallons</u>
<u>Related or Supporting Facility Components</u>		
<u>34.5 kV Collection System</u>		
<u>Collector line length, belowground</u>	<u>15</u>	<u>miles</u>
<u>Perimeter Fence</u>		
<u>Length</u>	<u>15,400</u>	<u>Linear feet</u>
<u>Height</u>	<u>10</u>	<u>feet</u>
<u>Roads</u>		
<u>New road (length, width)</u>	<u>3.4; 12-20</u>	<u>Miles, feet</u>

²⁵ ORS 469.370(7) and (10).

²⁶ ORS 469.403.

Table A-2 : Facility Component Summary

<u>Component and Design Standard</u>	<u>No.</u>	<u>Unit</u>
<u>Grid-Interconnect</u>		
<u>No. of Structures</u>	<u>2</u>	
<u>Structure type, height</u>	<u>Utility pole,</u> <u>30</u>	<u>feet</u>
<u>Battery Energy Storage System (Lithium-ion)</u>		
<u>Approx. total batteries</u>	<u>70</u>	<u>MW</u>
<u>Approx. total containers</u>	<u>200</u>	
<u>Approx. container dimensions</u>	<u>8 x 10 x 10</u>	<u>H x W x L, feet</u>
<u>HVAC noise level, per unit</u>	<u>98</u>	<u>dBA at 6 feet</u>
<u>Substations/Switchyard</u>		
<u>Switchyard</u>	<u>1</u>	
<u>No. of substations</u>	<u>1</u>	
<u>No. of main power transformers</u>	<u>2</u>	
<u>Transformer oil-containing capacity</u>	<u>15,000</u>	<u>gallons</u>
<u>Transformer noise level</u>	<u>102</u>	<u>dBA</u>
<u>O&M Enclosure</u>		
<u>Size</u>	<u>20 x 600</u>	<u>Height x width</u>
<u>Buildings</u>	<u>Dry storage shed, workspace,</u> <u>storage area</u>	

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III.A Facility Components

The proposed facility would occupy up to 324 acres and includes the energy facility together with related or supporting facilities. Related or supporting facilities means any structure, proposed by the applicant, to be constructed or substantially modified in connection with the construction of an energy facility.²⁷ As stated in ASC Exhibit B, the proposed facility includes solar photovoltaic power generation components and related or supporting facilities, with a nominal and average generating capacity of approximately 50 MW.

III.A.1 Energy Facility

The proposed solar energy facility would be comprised of approximately 180,000 solar modules that would use either mono- or poly-crystalline cells contained within antireflective glass panels linked together with wire connectors.²⁸ The crystalline silicon cells are insulated and protected on both sides by sheets of polymers and glass, which is tempered and covered with a protective plastic layer that gives the glass added strength and ensures that if the glass were to crack or break it would stay intact. Furthermore, the modules would be connected in series to form long rows connected via shielded electrical cables, to protect against fires. Strings of these solar modules would be mounted on single-axis tracker systems that rotate the modules to follow

²⁷ ORS 469.300 (24), OAR 345-001-0010(21) and – (50).
²⁸ WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 2.0.

1 the path of the sun throughout the day. The modules on posts and trackers would be
2 approximately 16 feet in height when tilted on the single-axis tracking system.²⁹ The tracker
3 system would be supported by approximately 33,000 steel posts, which could be round hollow
4 posts or pile-type posts (i.e., H-pile, C-pile, S-pile) or helical.³⁰ The type of post and post depth
5 may vary depending on soil conditions, but the posts would typically be installed 4 to 8 feet
6 below the surface and protrude 4 to 7 feet above grade. Posts at the end of tracker rows are
7 usually installed to greater depth to withstand wind uplift. In some soil conditions, concrete
8 backfill would be required for each post, which would be determined by geotechnical
9 investigations conducted prior to construction of the proposed facility as discussed further in
10 Sections IV.D., *Soil Protection* and IV.C., *Structural Standard*. The solar array and related or
11 supporting facilities would be within a 6 to 10-foot-tall chain link perimeter fence line. A solar
12 “array” refers to the configuration of multiple rows of modules and can vary depending on the
13 type of equipment technology and topography of the site. Related or supporting facilities are
14 discussed in more detail below.

15
16 Approximately 25 inverters would serve the function of converting DC electricity generated
17 from the solar modules to AC electricity and then are routed to approximately 25 step-up
18 transformers which increase the output voltage from the inverter to the final substation feed
19 voltage which would depend on which transmission line the facility connects to. Transformers
20 would be co-located with the inverters associated with each tracker row, or centrally located
21 and constructed on concrete or gravel pads. The inverter and transformer specifications would
22 comply with the applicable requirements of the National Electric Code and Institute of Electrical
23 and Electronics Engineers standards and the transformers would have an oil containment
24 system made of prefabricated steel, concrete, or fiberglass for the 550 gallons of oil, depending
25 on permit and code requirements.

26 *Facility Interconnection*

27
28
29 The applicant is not proposing a transmission line as a related or supporting facility and explains
30 that there are three existing transmission line rights-of-way that are capable of providing
31 interconnection. The three existing transmission line rights-of-way are illustrated in ASC Exhibit
32 C, Figures C-2 through C-4. Two transmission line rights-of-way transect the proposed site
33 boundary and run southeast to northwest crossing over the site boundary: Bonneville Power
34 Administration’s (BPA) McNary to Roundup 230-kilovolt (kV) line and PacifiCorp’s Pendleton to
35 Hermiston 69-kV line. The Umatilla Electric Cooperative (UEC) 115-kV line parallels the eastern
36 edge of the proposed site boundary adjacent to South Edwards Road. The applicant anticipates
37 that interconnection would occur with the Umatilla Electric Cooperative 115-kV line, however,
38 the applicant seeks interconnection micro-siting flexibility for all or part of the proposed facility
39 to the three existing transmission lines. As described below in Section III.A.2., *Related or*
40 *Supporting Facilities*, the applicant proposes a facility Switchyard Substation in addition to the

²⁹ WESAPDoc3-7 ASC Exhibit G Materials Analysis 2022-09-28, Section 2.1.

³⁰ WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Attachment B-1 provides a figure with drawings of the tracker post designs.

1 facility Collector Substation. The switchyard would likely be owned and operated by the utility
2 the facility interconnects with (e.g., Umatilla Electric Cooperative, Bonneville Power
3 Administration, or PacifiCorp), and under Recommended Land Use Condition 6, prior to
4 operation, the applicant would be required to provide an executed interconnection agreement
5 with Umatilla Electric Cooperative, Bonneville Power Administration or PacifiCorp
6 demonstrating that the facility has a long-term agreement for interconnection to one of the
7 existing transmission lines.

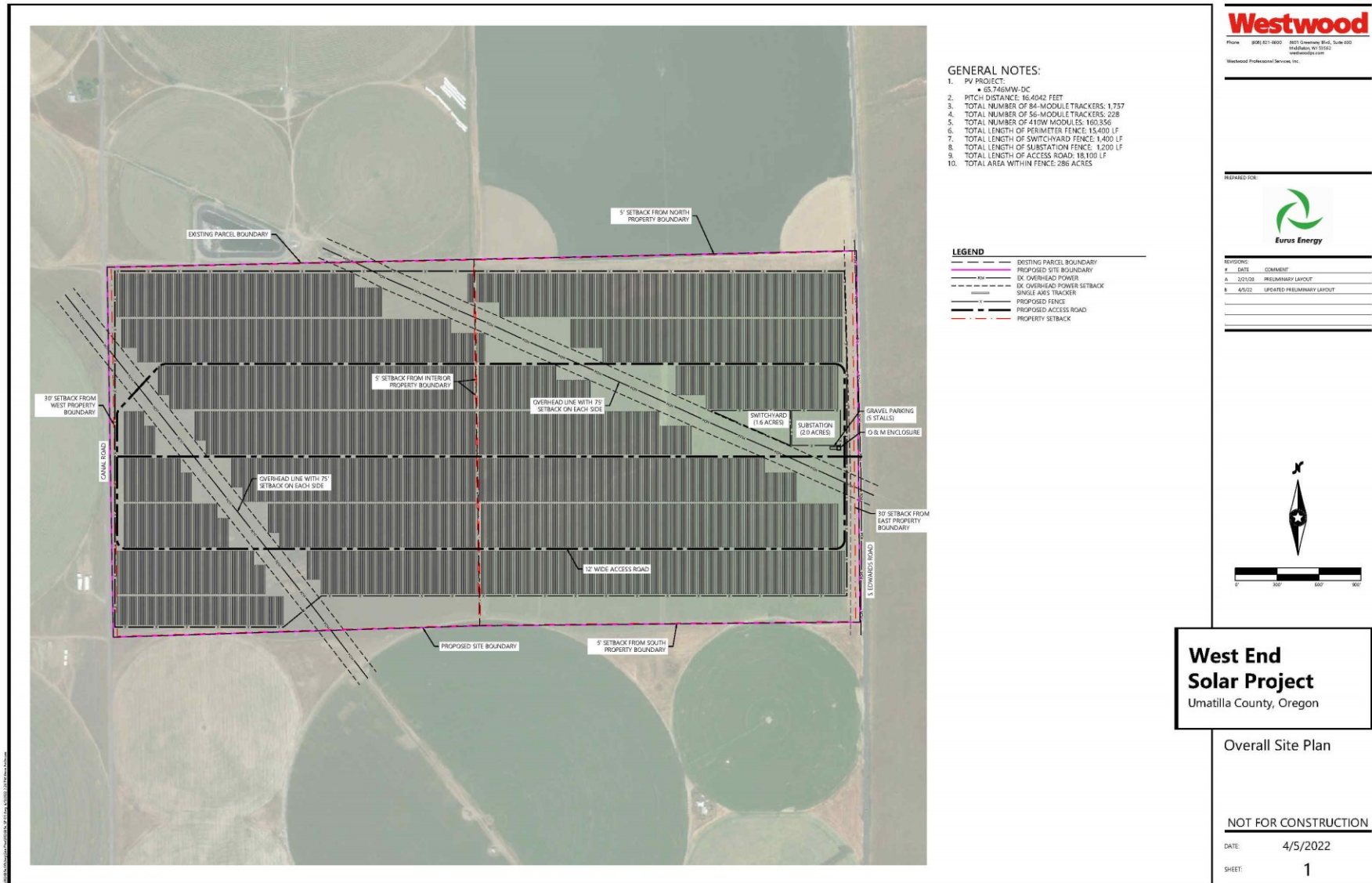
8
9 As discussed in Section IV.K., *Historic, Cultural, and Archaeological Resources*, because of the
10 age of the BPA McNary to Roundup 230-kilovolt (kV) transmission line and PacifiCorp’s
11 Pendleton to Hermiston 69-kV transmission line, they are considered historic resources.
12 However, as operational transmission lines, it is permissible to interconnect with them. The
13 applicant indicates that the facility would be constructed and operated to avoid the
14 transmission line rights-of-way, as represented in ASC Exhibit C, Figure C-4 (Overall Site Plan),
15 and in Figure 1: *Preliminary Facility Site Plan*, of this order. As indicated in the Preliminary Site
16 Plan, there would be a 75-foot set back of facility components on both sides of the transmission
17 line rights-of-way, however, facility roads would be permissible under the transmission lines.

18 19 *III.A.2 Related or Supporting Facilities*

20
21 Proposed related or supporting facilities, as further described below, would include:

- 22
- 23 • Battery storage system
- 24 • 34.5 kV electrical collector lines
- 25 • Collector substation
- 26 • Switchyard substation with interconnection facilities
- 27 • Supervisory Control and Data Acquisition (SCADA) System
- 28 • Operations and maintenance (O&M) enclosure
- 29 • Security fencing and gates
- 30 • Service roads
- 31 • Construction staging areas

1 **Figure 1: Preliminary Facility Site Plan**



2

Battery Storage System

The proposed facility may include up to 70 MW of lithium-ion energy storage system (ESS), which would be comprised of up to 200 modular energy storage units or enclosures, each roughly 8 x 10 x 10 feet (w, d, h).³¹ Multiple individual units would be linked together to form an energy storage string, which may be distributed throughout the site boundary around the solar array or centrally located at the proposed substation. The ESS enclosures would be located on gravel surface, without vegetation present. The smaller step-up transformers located at the energy storage enclosures would have an oil containment system made of prefabricated steel, concrete, or fiberglass oil collection system depending on permit and code requirements, similar to those at the substation, discussed more below.

- The ESS units would have/be:
 - A thermal management system designed and sized so heat generated could be removed ensuring the batteries operate in an environment that does not exceed the operational temperature range defined by the battery manufacturer.
 - Temperature, current, voltage, and humidity sensors which provide a real time information of the conditions inside the enclosures.
 - Fire Safety System (FSS) which monitors heat, and smoke, and provides dedicated annunciation/alarming in the event a fire condition is detected, automatically returns the system to a standby mode and if necessary automatically deploys an appropriate suppression agent.³²
 - Designed so that if an internal fire occurs, it can impede flames from moving to adjacent enclosures or the environment.
 - Equipped with proper safety labels and signages for the safety of site personnel. The enclosure will be electrically touch safe and grounded.

On-site personnel, when present, would be able to activate an emergency stop via an emergency stop button on the external wall of the energy storage system enclosures. However, the battery storage units would also be remotely controlled, including shut off abilities.

34.5-kV Collector Line System

The 34.5-kV collector line system links transformers throughout the proposed solar array and carries generated power to the proposed collector substation. The collector line system would be approximately 79,200 feet (approximately 15 miles), buried in a trench likely adjacent to access roads within the solar arrays at a depth of approximately three feet and four feet wide.³³

³¹ ASC Exhibit B, Section 3.0 and G, Section 2.1.

³² The FSS alarm functions are handled by a common fire alarm control panel (FACP) in the auxiliary control cabinet. The FACP monitors the status of the detectors and initiates an alarm if a fire is detected. The panel is set up with fire detection zones for the detectors in the battery enclosures. The FACP is connected to the local strobe and siren unit for alarm annunciation. Internal batteries in the FACP provide backup power if the main power supply is temporarily lost. WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 2.0

³³ WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 3.0.

1 The collector line system and substation would have redundant surge arrestors to deactivate
2 the facility components during unusual operational events that could start fires.

3
4 *Collector Substation*
5

6 The 34.5-kV collector line system carries power generated power to the collector substation
7 which would combine and step up the voltage of energy generated by the solar arrays to the
8 transmission voltage via main power transformer. The substation would include three open-air
9 isolation switches that connect the collector line system to the main 34.5-kV bus, a 34.5-kV
10 main bus open-air isolation switch, the step-up transformer, and a circuit breaker and open-air
11 isolation switch.³⁴ The substation would also include protective relay and metering equipment,
12 utility and customer revenue metering, and a station service transformer to provide power to
13 the substation and substation control house. The substation would also have redundant surge
14 arrestors to deactivate the operation of the proposed facility during unusual operational events
15 that could start fires.

16
17 The main power transformer would use approximately 15,000 gallons of non-polychlorinated
18 biphenyl oil. Additional substation equipment may include circuit-breakers, electrical buses and
19 insulators, disconnect switches, relaying, battery and charger, surge arresters, alternating
20 current and direct current supplies, control enclosure, metering and control equipment,
21 grounding, and associated control wiring. The main power transformer would be ground-
22 mounted, constructed on concrete or gravel pads. As discussed further in Section IV.D., *Soil*
23 *Protection*, transformers would have secondary spill containment traps to minimize the
24 possibility of accidental leakage. The main power transformer at the collector substation may
25 use a reinforced concrete pit to retain any oil that may be accidentally spilt from the
26 transformer and the transformer areas would have a drainage sump for the collection of liquid
27 within the containment and would allow for oil/water separation. A berm and liner solution
28 may be also considered, for oil containment, if it complies with all relevant codes and has a
29 minimum lifespan of 30 years free of maintenance.

30
31 The substation and O&M enclosure would be sited together in a fenced and graveled area on
32 approximately 15 acres, likely on the eastern end of the proposed site boundary. The
33 substation's maximum height would be 30 feet.

34
35 *Switchyard Substation*
36

37 A switchyard substation would be constructed in a separately fenced graveled area adjacent
38 the collector substation. The switchyard may be constructed, owned, and operated by the
39 utility that operates the transmission line that the proposed facility interconnects with (e.g.,

³⁴ Open-air isolation switches allow visual confirmation that electrical disconnects between components have been made and are used during construction, commissioning, and maintenance. WESAPPD0c3-1 ASC Exhibit B Project Description 2022-10-22, Section 3.0.

1 Umatilla Electric Cooperative, Bonneville Power Administration, or PacifiCorp).³⁵ The switchyard
2 substation would have similar equipment as the collector substation described above including
3 a control house, however instead of a main power transformer the switchyard would include
4 other small transformers for service power and meters. The Switchyard substation would also
5 have interconnection facilities including two utility poles that would support the electric line
6 that connects the Switchyard to the existing transmission line. The switchyard equipment
7 would have a maximum height of 30 feet.³⁶

8 9 *Supervisory Control and Data Acquisition (SCADA) System*

10
11 A Supervisory Control and Data Acquisition (SCADA) system would be installed to collect
12 operating and performance data from the solar array and would allow remote operation of the
13 proposed facility. Smoke/fire detectors would be placed around the site that will be tied to the
14 SCADA System and would contact local firefighting services. Fiber optic cables for the SCADA
15 system operation would be installed with the 34.5 kV collector line system.

16 17 *Operations and Maintenance (O&M) Enclosure*

18
19 The O&M enclosure would consist of a single, 20-foot-tall, 600-square-foot, dry-storage shed
20 located near the collector substation graveled area. The O&M building would include a
21 workspace and storage area. Restroom facilities for employee sanitation would be provided by
22 portable-toilets and a hand-washing station, while operational required water will be trucked in
23 from offsite sources and bottled water, as discussed further in Section IV.R.3., *Water Rights*.

24
25 Small quantities of lubricants, degreasers, herbicides, or other chemicals may be stored in the
26 O&M enclosure according to recommended storage and usage label instructions. During
27 construction, on-site fuel storage (i.e. for backup generators, etc.) may be placed in designated
28 areas within construction staging areas. Secondary containment and refueling procedures for
29 on-site fuel storage will follow the contractor's Spill Prevention, Control, and Countermeasures
30 Plan (SPCC), which is described further in Section IV.D., *Soil Protection*. Any tank, container or
31 drum of oil, diesel or chemical, equal to or greater than 55 gallons would:³⁷

- 32 • Include secondary containment of at least 110% of the volume of the primary container;
- 33 • Include spill response equipment;
- 34 • Site security to control access to equipment and property.

35 36 *Security Fencing and Gates*

³⁵ The applicant includes the Switchyard substation and its interconnection facilities in the ASC to evaluate maximum potential impacts to resources protected under Council standards, therefore, there are recommended site certificate conditions that may apply to the Switchyard substation and its components, if constructed and operated by the applicant.

³⁶ WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 3.0.

³⁷ WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 2.0.

1 The applicant proposes to fence the entire 324-acre site boundary with approximately 3 miles
2 (15,400 linear feet) of 6 to 10-foot chain-link perimeter fencing. As stated above, the
3 substation, switchyard, and centralized battery enclosures would have additional 6 to 8-foot-
4 high wire mesh fencing. The perimeter fencing would vehicle and pedestrian access gates with
5 locks, with the primary access point likely on the eastern point of the proposed facility off of S.
6 Edwards Road. A noncombustible, defensible space clearance along the fenced perimeter of
7 the site boundary would be maintained to protect from fire hazards.

8 9 *Site Access and Service Roads*

10
11 As noted above, the anticipated main access point off of S. Edwards Road near the proposed
12 substation. A new driveway off of S. Edwards Road would be required at the access point,
13 which would meet that applicable design standards designated by Umatilla County
14 Development Code (UCDC) and discussed further in Section IV.E., *Land Use*. Approximately 3.4
15 miles of newly constructed roads would be graded and graveled to meet load requirements for
16 all equipment, where road cross sections would consist of 6 inches of compacted gravel
17 supported on 6 inches of compacted native dirt. The driveway and access roads would also be
18 sufficiently sized for emergency vehicle access, where access roads located within the solar
19 array site would be approximately 12 feet to 20 feet wide, depending on location, with an
20 internal turning radius of up to 28 feet.³⁸ These roads would also have less than a 10 percent
21 grade, or a similar profile, depending on exact siting which would maintain safety standards as
22 well as help maintain erosion and sediment control. Vegetation would be cleared and
23 maintained along perimeter roads to provide a vegetation clearance for fire safety.

24 25 *Construction Staging Areas*

26
27 During construction, temporary staging areas would be used within the fenced site boundary to
28 support construction and store supplies and equipment. The staging areas would consist of a
29 crushed gravel surface and would be considered a permanent impact.

30 **III.B Description of Construction, Operation, and Retirement Activities**

31 32 *III.B.1 Facility Construction Activities*

33
34 Construction of the proposed facility is anticipated to take 9-12 months, however, under
35 Recommended General Standard of Review Condition 1, the Department recommends the
36 applicant be allotted three years from site certificate execution to begin construction and then
37 24 months to complete construction after construction has begun.³⁹ Construction activities
38 would employ an average of 300 people and a maximum of 500 people during peak summer
39 months. Most of the construction workers would be contracted under the applicant or

³⁸ WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 3.0.

³⁹ ORS 469.300(6) "Construction" means work performed on a site, excluding surveying, exploration or other activities to define or characterize the site, the cost of which exceeds \$250,000.

1 contractor, however, specialized workers would be required for the installations of the solar
2 components and battery storage facilities.

3
4 Construction activities include clearing and grubbing of vegetation in construction staging
5 areas, solar array, and new access roads then the access roads, substation and O&M areas
6 would be graded and the site prepared which includes equipment that would cut, move, and
7 compact the subgrade surface. Soils would be stockpiled for later use and decompaction would
8 be performed as needed prior to final grading for site revegetation, gravel placement or
9 foundation installation.

10
11 Heavy-duty trucks would deliver construction equipment such as bulldozers, graders,
12 compactors, forklifts, and would also carrying gravel and other materials required for site
13 grading and to construct the new site access road segments. Heavy-duty trucks would also carry
14 proposed facility components and materials for the solar module blocks, battery and
15 substation. Lighter-duty trucks would deliver water to the site for dust control during
16 construction and other electrical equipment and materials required for solar panel construction
17 and power transmission. All construction vehicles would be limited to 20 miles per hour on all
18 facility access roads

19
20 If the proposed facility is constructed in phases, in accordance with ORS 469.300(6),
21 preconstruction conditions, if specified, may be satisfied for the applicable phase, facility
22 component or for the facility, as applicable, based on final design and configuration.

23
24 III.B.2 Facility Operational Activities

25
26 The estimated life of the proposed facility is 30 years. The proposed facility would be operated
27 remotely except for routine maintenance and facility repair activities where approximately two
28 to five workers would be deployed to the site for maintenance or repairs of facility
29 components. Proposed facility O&M activities would include routine inspections of the battery
30 storage, transformers, and other electrical equipment, vegetation management, solar panel
31 washing, and changing the lithium-ion batteries and solar panels. Operational water may be
32 trucked in and stored in a water tank or trucked in for specific uses.

33
34 Inspections of the inverters, transformers, and battery system would be conducted according to
35 the manufacturer's recommendations, which are assumed to be monthly inspections.⁴⁰
36 Vegetation and weed management under the solar arrays and other areas within the site
37 boundary that aren't graveled would be implemented through manual, mechanical or chemical
38 (i.e., herbicide) control measures, but vegetation would be low growing or maintained to not
39 overgrow.⁴¹ The applicant estimates that the solar panels may need to be washed up to twice
40 per year and wash water would be applied via tanker truck without any cleaning solvents added
41 to the water so it may be absorbed into the ground after application. The applicant assumes

⁴⁰ WESAPDoc3-9 ASC Exhibit I Soil Conditions 2022-09-28, Section 5.2.

⁴¹ ASC Exhibit P, Attachment P-5 Draft Weed Management Plan, Sections 2.0 and 2.2.

1 that the lithium-ion batteries would need to be changed approximately every 10 years or two
2 to three times throughout the life of the proposed facility because they degrade over time,
3 particularly batteries that are more heavily used.⁴² The following procedures would be
4 implemented for the battery replacement:

- 5 • Proposed facility operator would disconnect and de-energy battery systems prior to
6 removal from the installed racks and package the batteries for transport to a licensed
7 recycling facility.
- 8 • At the recycling facility, the qualified contractor would dismantle the battery modules
9 and prepare individual cells for metals recovery.
- 10 • Individual cells would be processed in a furnace to recover metals. Recovered metals
11 may include aluminum, calcium, lithium, and a metal alloy comprising cobalt, copper,
12 nickel, and iron.
- 13 • Recovered metals would be recycled or separated to recover individual metals where
14 economically viable.

15
16 Solar modules and electrical equipment would need to be repaired or replaced over the lifetime
17 of the proposed facility. Solar panels that are nonfunctional or are retired would be recycled to
18 the maximum extent feasible through the Solar Energy Industries Association (SEIA) National PV
19 Recycling Program, as described in Section IV.N., *Waste Minimization*.

20 III.B.3 Facility Retirement Activities

21
22
23 Proposed facility retirement or decommissioning is described in detail in Section IV.G.,
24 *Retirement and Financial Assurance*, but begins with disconnecting all electrical equipment
25 disassembling equipment and components such as the battery storage units, solar panels and
26 transformers. Larger containers and equipment would be removed, trucked off-site and
27 recycled and disposed of. None of these materials are considered hazardous. Solar panels
28 would be disconnected, and piles would be removed including the excavation of any concrete
29 foundations. Gravel and foundations from the inverters and transformers, O&M structure,
30 substations, and switching station would be removed by trenching and excavation a minimum
31 depth of 3 feet below grade. The proposed facility site would then be restored through minimal
32 grading and revegetation with plants or seed mix consistent with the Draft Noxious Weed Plan
33 (Attachment P-4 of this order) or landowner interests.

34
35 Any hazardous material would be handled by a qualified contractor and adhere to applicable
36 regulations for transport and disposal, including but not limited to 49 Code of Federal
37 Regulations 173.159. The decommissioning of the energy storage system, if used, would involve
38 disposing of battery components at an off-site facility approved for disposal or recycling of
39 batteries, following the same process as replaced batteries during operations. Solar panels
40 would be recycled to the greatest extent feasible at the time of facility retirement and solar
41 panels not recycled would be disposed of at a certified disposal site or program for solar panels.
42

⁴² WESAPDoc3-7 ASC Exhibit G Materials Analysis 2022-09-28, Section 2.2.

1 **III.C Facility Location and Site Boundary**
2

3 The proposed facility is located within Umatilla County, Oregon, approximately 1 mile east of
4 the city limits of Hermiston, Oregon and 1 mile north of the city limits of Stanfield, Oregon, as
5 presented in Figure 2: *Proposed Facility Regional Location*.

6
7 The proposed site boundary includes approximately 324 acres of private land zoned as
8 exclusive farm use (EFU). As defined in OAR 345-001-0010, “site boundary” means the
9 perimeter of the site of a proposed energy facility and its related or supporting facilities, all
10 temporary laydown and staging areas and all corridors proposed by the applicant; “site” means
11 all land upon which an energy facility and its related or supporting facilities is located or
12 proposed to be located.⁴³

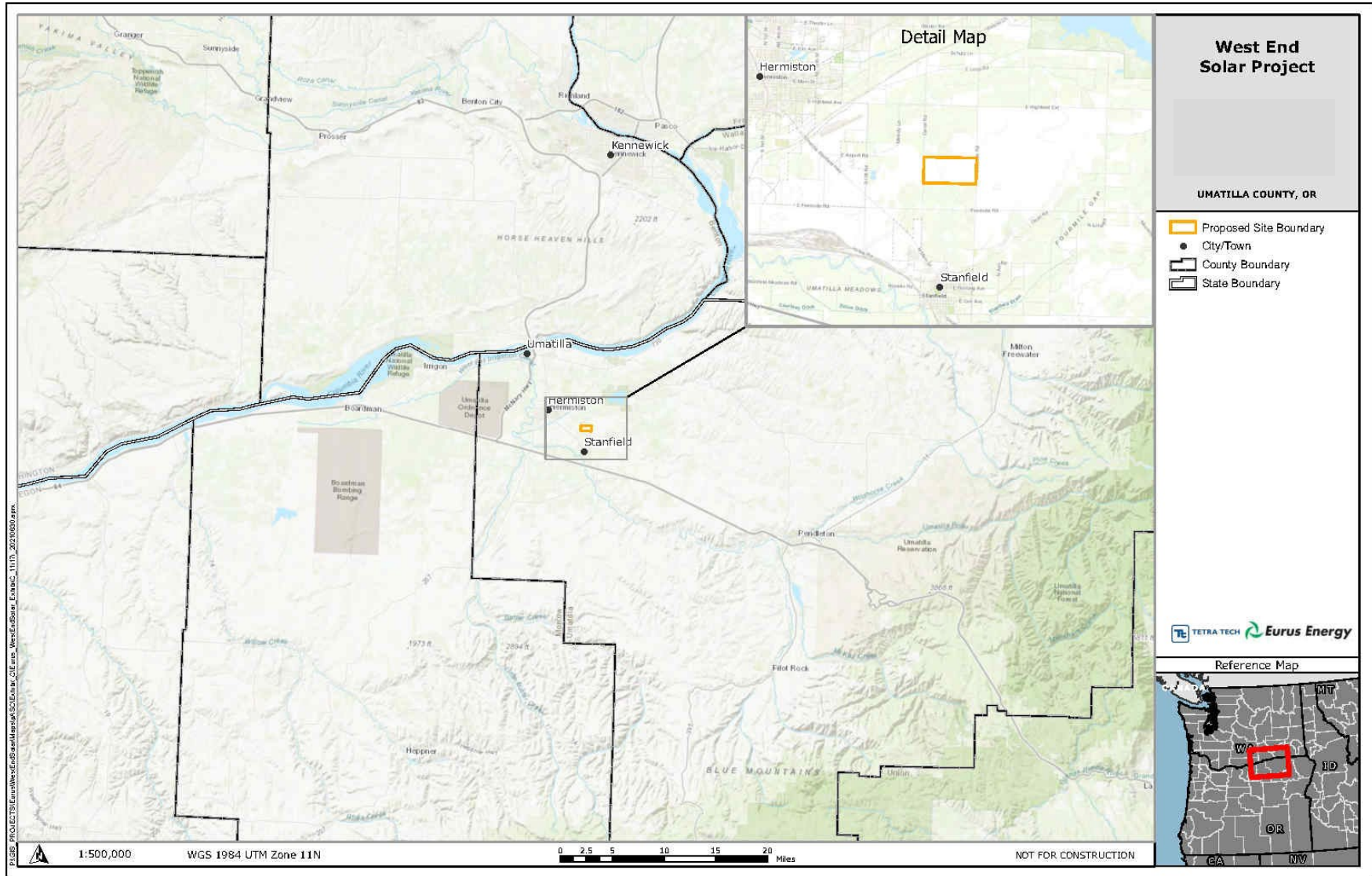
13
14 The applicant requests that the site boundary be considered a “micrositing area” to provide
15 maximum flexibility with siting the location of specific facility components based on final
16 design. Further, the applicant requests the site boundary be considered a “micrositing area”
17 because the evaluation in the ASC considers the maximum impact footprint to be the 324 acres,
18 including under the Council’s Fish and Wildlife Habitat standard where the applicant represents
19 that the 324 acres would be considered a permanent impact to habitats.⁴⁴ A micrositing
20 corridor, by definition, means a continuous area of land within which construction of facility
21 components may occur, subject to site certificate conditions.⁴⁵ Micrositing corridors or areas
22 are intended to allow some flexibility in specific component locations and design in response to
23 site-specific conditions and engineering requirements to be determined prior to construction.
24 As presented in Section IV., *Evaluation of Council Standards*, based on the applicant’s
25 methodology and assessment of impacts under applicable Council standards, the Department
26 recommends Council authorize the site boundary as a micrositing area.

⁴³ ORS 469.300(25).

⁴⁴ WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 2.0 and WESAPDoc3-16 ASC Exhibit P Fish and Wildlife 2022-09-28, Section 6.2.

⁴⁵ OAR 345-001-0010(32).

1 **Figure 2: Proposed Facility Regional Location**



2
3

1 **IV. EVALUATION OF COUNCIL STANDARDS**
2

3 As discussed above, ORS 469.320 requires a site certificate from the Energy Facility Siting
4 Council (EFSC or Council) before construction of a “facility.” ORS 469.300(14) defines “facility”
5 as an “energy facility together with any related or supporting facilities.” The proposed facility
6 qualifies as an “energy facility” under the definition in ORS 469.300(11)(a)(D)(i).⁴⁶
7

8 To issue a site certificate for a proposed facility, the Council must determine that “the facility
9 complies with the applicable standards adopted by the Council pursuant to ORS 469.501 or the
10 overall public benefits of the facility outweigh any adverse effects on a resource or interest
11 protected by the applicable standards that the facility does not meet.”⁴⁷ The Council must also
12 determine that the proposed facility complies with all other applicable Oregon statutes and
13 administrative rules, as identified in the Project Order, excluding requirements governing
14 design or operational issues that do not relate to siting⁴⁸ and excluding compliance with
15 requirements of federally-delegated programs.⁴⁹ Nevertheless, the Council may consider these
16 programs in the context of its own standards to ensure public health and safety and protection
17 of the environment.⁵⁰
18

19 Under ORS 469.310, the Council is charged with ensuring that the “siting, construction and
20 operation of energy facilities shall be accomplished in a manner consistent with protection of
21 the public health and safety.” ORS 469.401(2) further provides that the Council must include in
22 the site certificate “conditions for the protection of the public health and safety,” for the time
23 for completion of construction, and to ensure compliance with the standards, statutes and rules
24 described in ORS 469.501 and ORS 469.503.”⁵¹ The Council implements this statutory
25 framework and ensures the protection of public health and safety by adopting findings of fact,
26 conclusions of law, and conditions of approval concerning the proposed facility’s compliance
27 with the Council’s Standards for Siting Facilities at OAR 345, Divisions 22, 24, 26 and 27.
28

29 ~~This DPO includes~~This proposed order includes the Department’s ~~initial~~revised analysis of
30 whether the applicant has demonstrated an ability to satisfy each applicable Council Standard
31 (with mitigation and subject to compliance with recommended conditions, as applicable), based
32 on the information in the ASC, issues raised on the record of the DPO public hearing and

⁴⁶ ORS 469.300(11)(a)(D)(i) defines an EFSC jurisdictional solar photovoltaic power generation facility as using more than 160 acres located on high-value farmland as defined in ORS 195.300.

⁴⁷ ORS 469.503(1).

⁴⁸ As stated above, such matters include design-specific construction or operation standards and practices that do not relate to siting, as well as matters relating to employee health and safety, building code compliance, wage and hour or other labor regulations, or local government fees and charges.

⁴⁹ ORS 469.401(4); ORS 469.503(3).

⁵⁰ The Council does not have jurisdiction over matters that are not included in and governed by the site certificate or amended site certificate. However, the Council may rely on the determinations of compliance and the conditions in the permits issued by these state agencies and local governments in deciding whether the facility meets other standards and requirements under its jurisdiction.

⁵¹ ORS 469.401(2).

1 ~~supplemental facts and evidence provided by the applicant in response to those issues.~~
2 ~~Following the 30-day comment period on the DPO, public hearing on April 22, 2021, and~~
3 ~~Council's review of and comments on the DPO, the Department will issue a Proposed Order~~
4 ~~presenting an evaluation of the Council's comments and issues raised with sufficient specificity~~
5 ~~on the record of the DPO.~~

6
7 Where the following language is included in a condition, “before beginning construction of the
8 facility or a facility component,” the certificate holder is authorized to construct in a phased
9 approach. If the facility is to be constructed in separate phases, only conditions, or portions of
10 conditions, related to that phase and related facility components are required to be met to
11 begin construction of that phase.

12
13 **IV.A General Standard of Review: OAR 345-022-0000**

14
15 *(1) To issue a site certificate for a proposed facility or to amend a site certificate, the*
16 *Council shall determine that the preponderance of evidence on the record supports the*
17 *following conclusions:*

18
19 *(a) The facility complies with the requirements of the Oregon Energy Facility Siting*
20 *statutes, ORS 469.300 to ORS 469.570 and 469.590 to 469.619, and the standards*
21 *adopted by the Council pursuant to ORS 469.501 or the overall public benefits of the*
22 *facility outweigh the damage to the resources protected by the standards the facility*
23 *does not meet as described in section (2);*

24
25 *(b) Except as provided in OAR 345-022-0030 for land use compliance and except for*
26 *those statutes and rules for which the decision on compliance has been delegated by*
27 *the federal government to a state agency other than the Council, the facility*
28 *complies with all other Oregon statutes and administrative rules identified in the*
29 *project order, as amended, as applicable to the issuance of a site certificate for the*
30 *proposed facility. If the Council finds that applicable Oregon statutes and rules, other*
31 *than those involving federally delegated programs, would impose conflicting*
32 *requirements, the Council shall resolve the conflict consistent with the public interest.*
33 *In resolving the conflict, the Council cannot waive any applicable state statute.*

34 ***

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

1 **Findings of Fact**

2
3 OAR 345-022-0000 provides the Council’s General Standard of Review and requires the Council
4 to find that a preponderance of evidence on the record supports the conclusion that a
5 proposed facility would comply with the requirements of EFSC statutes and the siting standards
6 adopted by the Council and that a proposed facility would comply with all other Oregon
7 statutes and administrative rules applicable to the issuance of a site certificate for the facility.
8

9 The requirements of OAR 345-022-0000 are discussed in the sections that follow. The
10 Department consulted with other state agencies, and the Umatilla County Board of
11 Commissioners, as the appointed Special Advisory Group (SAG) for the proposed facility, during
12 review of the preliminary Application for Site Certificate (pASC) and ASC to aid in the evaluation
13 of whether the proposed facility would satisfy the requirements of applicable statutes, rules
14 and ordinances otherwise administered by other agencies. Additionally, in many circumstances
15 the Department relies upon these reviewing agencies’ special expertise in evaluating
16 compliance with the requirements of Council standards.
17

18 OAR 345-022-0000(2) and (3) apply to ASCs where an applicant has shown that the proposed
19 facility cannot meet Council standards, or has shown that there is no reasonable way to meet
20 the Council standards through mitigation or avoidance of the damage to protected resources;
21 and, for those instances, establish criteria for the Council to evaluate in making a balancing
22 determination. The applicant does not assert that the proposed facility would not meet an
23 applicable Council standard. Therefore, OAR 345-022-0000(2) and (3) do not apply to this
24 review.
25

26 **Certificate Expiration (OAR 345-027-0013)**

27
28 ORS 469.370(12) requires the Council to “specify in the site certificate the date by which
29 construction of the facility must begin.” ORS 469.401(2) requires that the site certificate contain
30 a condition “for the time for completion of construction.” Under OAR 345-025-0006(4), the
31 certificate holder must begin construction on the facility no later than the construction
32 beginning date specified by Council in the site certificate. “Construction” is defined in ORS
33 469.300(6) and OAR 345-010-0010(12) to mean “work performed on a site, excluding surveying,
34 exploration or other activities to define or characterize the site, the cost of which exceeds
35 \$250,000.”
36

37 In ASC Exhibit B, the applicant represents a tentative construction schedule that would span a
38 nine-month period. Based on the Department’s experience with large energy facilities, a
39 number of unforeseen factors can cause delays to a facility’s construction commencement and
40 completion timelines, such as financial, economic, or technological changes. Pre-construction
41 requirements that must be satisfied also require 9-12 months to prepare, submit and obtain
42 agency approvals, as applicable. An applicant is obligated to comply with all applicable pre-
43 construction conditions prior to beginning construction activities. Recommended pre-
44 construction conditions include securing an approximately 240-acre habitat mitigation area, if

1 facility is the full build out, geotechnical investigation and finalization of mitigation plans as
2 included in attachments to this order. Several pre-construction conditions include review and
3 approval by the Department, in coordination with applicable reviewing agencies. Given that the
4 applicant represents a 9-month maximum construction schedule, the Department recommends
5 Council establish a construction commencement deadline that provides sufficient time for
6 planning and unexpected delays of three years after the issuance of the site certificate, and an
7 24-month completion deadline once construction commences.

8
9 **Recommended General Standard Condition 1 (GEN):** The certificate holder shall begin and
10 complete construction of the facility by the dates specified in the site certificate.

- 11 a. Construction of the facility, facility component or phase, shall commence within three
12 years after the date of Council action [DATE TO BE SPECIFIED]. Within 7 days of
13 construction commencement, the certificate holder shall provide the Department
14 written verification that it has met the construction commencement deadline by
15 satisfying applicable preconstruction conditions and completing at least \$250,000 work
16 at the site.
- 17 b. Construction of the facility shall be completed within 18-months after the construction
18 commencement date. Within 7 days of construction completion, the certificate holder
19 shall provide the Department written verification that it has met the construction
20 completion deadline.

21 [Mandatory Condition OAR 345-025-0006(4)]

22
23 *Mandatory and Site-Specific Conditions in Site Certificates [OAR 345-025-0006 and OAR 345-*
24 *025-0010]*

25
26 OAR 345-025-0006 lists certain mandatory conditions that the Council must adopt in every site
27 certificate. Mandatory conditions OAR 345-025-0006(7) through (9) and (16) are discussed and
28 applied in Section IV.G *Retirement and Financial Assurance* of this order as they relate to the
29 restoration of the site, Council approval of a retirement plan, and bonding requirements.
30 Mandatory conditions OAR 345-025-0006(12) through (14) are discussed and applied in Section
31 IV.C *Structural Standard*, because they are associated with the design, construction and
32 operation of the proposed facility to avoid dangers of seismic hazards, coordination with and
33 notifications to the Department of Geology and Mineral Industries (DOGAMI). In addition,
34 pursuant to OAR 345-025-0006(10), the Council shall include as conditions in the site certificate
35 all representations in the ASC and supporting record the Council deems to be binding
36 commitments made by the applicant, as necessary to avoid or minimize a potential impact.
37 Mandatory conditions that are not otherwise addressed in the evaluation of compliance with
38 specific standards are discussed below, in the context of the Council’s General Standard of
39 Review. These are not presented as “recommended” conditions because they are mandatory
40 conditions in all site certificates.

41
42 The following are applicable mandatory conditions required pursuant to OAR 345-025-0006:
43

1 **General Standard Condition 2 (GEN):** The certificate holder shall submit a legal description
2 of the site to the Oregon Department of Energy within 90 days after beginning operation of
3 the facility or any phase of the facility. The legal description required by this rule means a
4 description of metes and bounds or a description of the site by reference to a map and
5 geographic data that clearly and specifically identify the outer boundaries that contain all
6 parts of the facility.

7 [Mandatory Condition OAR 345-025-0006(2)]
8

9 OAR 345-025-0006(3) establishes, as a mandatory condition, that the certificate holder design,
10 construct, operate, and retire the facility substantially as described in the site certificate in
11 compliance with the requirements of ORS Chapter 469, applicable Council rules, and applicable
12 state and local laws, rules and ordinances in effect at the time the site certificate is issued.
13

14 **General Standard Condition 3 (GEN):** The certificate holder shall design, construct, operate
15 and retire the facility:

16 ~~a. Substantially as described in the site certificate;~~

17 ~~b. and in~~ compliance with the requirements of ORS Chapter 469, applicable Council rules,
18 and applicable state and local laws, rules and ordinances in effect at the time the site
19 certificate is issued; ~~and~~

20 ~~a.c. In compliance with all applicable permit requirements of other state agencies.~~

21 [Mandatory Condition OAR 345-025-0006(3)]
22

23 **General Standard Condition 4 (GEN):** Except as necessary for the initial survey or as
24 otherwise allowed for wind energy facilities, transmission lines or pipelines under this
25 section, the certificate holder shall not begin construction, as defined in OAR 345-001-0010,
26 or create a clearing on any part of the site until the certificate holder has construction rights
27 on all parts of the site. For the purpose of this rule, “construction rights” means the legal
28 right to engage in construction activities. For the transmission line associated with the
29 energy facility if the certificate holder does not have construction rights on all parts of the
30 site, the certificate holder may nevertheless begin construction, as defined in OAR 345-001-
31 0010, or create a clearing on a part of the site if the certificate holder has construction
32 rights on that part of the site and the certificate holder would construct and operate part of
33 the facility on that part of the site even if a change in the planned route of a transmission
34 line occurs during the certificate holder’s negotiations to acquire construction rights on
35 another part of the site.

36 [Mandatory Condition OAR 345-025-0006(5)]
37

38 **General Standard Condition 5 (GEN):** If the certificate holder becomes aware of a
39 significant environmental change or impact attributable to the facility or any phase of the
40 facility, the certificate holder shall, as soon as possible, submit a written report to the
41 Department describing the impact on the facility and any affected site certificate conditions.
42 [Mandatory Condition OAR 345-025-0006(6)]
43

1 **General Standard Condition 6 (GEN):** Upon completion of construction, the certificate
2 holder shall restore vegetation to the extent practicable and shall landscape all areas
3 disturbed by construction in a manner compatible with the surroundings and proposed use.
4 Upon completion of construction, the certificate holder shall remove all temporary
5 structures not required for facility operation and dispose of all timber, brush, refuse and
6 flammable or combustible material resulting from clearing of land and construction of the
7 facility.

8 [Mandatory Condition OAR 345-025-0006(11)]
9

10 **General Standard Condition 7 (GEN):** Before any transfer of ownership of the facility, any
11 phase of the facility, or ownership of the site certificate holder, the certificate holder shall
12 inform the Department of the proposed new owners. The requirements of OAR 345-027-
13 0400 apply to any transfer of ownership that requires a transfer of the site certificate.

14 [Mandatory Condition OAR 345-025-0006(15)]
15

16 *Site Specific Conditions [OAR 345-025-0010]*
17

18 In addition to mandatory conditions imposed on all facilities, the Council rules also include “site
19 specific” conditions at OAR 345-025-0010 that the Council may include in the site certificate to
20 address issues specific to certain facility types or proposed features of facilities.⁵² These are not
21 presented as “recommended” conditions because they are designated under OAR 345-025-
22 0010 to apply to the site certificate.
23

24 Because the proposed facility includes electrical infrastructure, the Department recommends
25 the Council adopt the following site-specific conditions:
26

27 **General Standard Condition 8 (GEN):** The certificate holder shall:

- 28 a. Design, construct and operate electrical infrastructure in accordance with the
29 requirements of the National Electrical Safety Code as approved by the American
30 National Standards Institute; and
- 31 b. The certificate holder shall develop and implement a program that provides reasonable
32 assurance that all fences, gates, cattle guards, trailers, or other objects or structures of a
33 permanent nature that could become inadvertently charged with electricity are
34 grounded or bonded throughout the life of the line.
- 35 c. Design the battery storage system in accordance with the requirements of the National
36 Fire Protection Association’s (NFPA) 855: Standard for the Installation of Stationary
37 Energy Storage Systems (NFPA, 2020) or most current version.

38 [Site Specific Condition OAR 345-025-0010(4)]
39

⁵² Site-Specific Conditions at OAR 345-025-0010(1)-(3), and (6)-(7) do not apply to the proposed facility based on facility energy source/type (solar photovoltaic power generation facility with related or supporting facilities including a proposed 230 kV transmission line).

1 As noted above, General Standard Condition 8(c) includes a design requirement applicable to
2 the proposed battery storage system. The battery storage system would be designed in
3 accordance with *NFPA 855: Standard for the Installation of Stationary Energy Storage Systems*
4 (NFPA, 2020). These standards include an evaluation of XX (fire suppression system).
5 *Construction and Operation Rules for Facilities [OAR Chapter 345, Division 26]*
6

7 The Council adopted rules at OAR Chapter 345, Division 26 to ensure that construction,
8 operation, and retirement of facilities are accomplished in a manner consistent with the
9 protection of the public health, safety, and welfare and protection of the environment. These
10 rules include requirements for compliance plans, inspections, reporting and notification of
11 incidents. The applicant must construct the facility substantially as described in the site
12 certificate and the applicant must construct, operate, and retire the facility in accordance with
13 all applicable rules adopted by the Council in OAR Chapter 345, Division 26.⁵³
14

15 The Department recommends that the Council adopt General Standard Condition 9 and 10, as
16 presented below, to support the Department's review of ongoing site certificate compliance, in
17 accordance with OAR Chapter 345, Division 26.
18

19 **General Standard Condition 9 (PRE):** At least 90 days prior to beginning construction,
20 (unless otherwise agreed to by the Department), the certificate holder shall submit to the
21 Department a compliance plan documenting and demonstrating actions completed or to be
22 completed to satisfy the requirements of all site certificate terms and conditions and
23 applicable statutes and rules. The plan shall be provided to the Department for review and
24 compliance determination for each requirement. The Department may request additional
25 information or evaluation deemed necessary to demonstrate compliance.
26

[OAR 345-026-0048]
27

28 **General Standard Condition 10 (GEN):** The certificate holder shall:

- 29 a. Within six months after beginning construction, and every six months thereafter during
30 construction, submit a semiannual construction progress report to the Department. In
31 each construction progress report, the certificate holder shall describe any significant
32 changes to major milestones for construction. The certificate holder shall report on the
33 progress of construction and shall address the subjects listed in (b). When the reporting
34 date coincides, the certificate holder may include the construction progress report
35 within the annual report described in this rule.
- 36 b. After January 1 but no later than April 30 of each year after beginning operation of the
37 facility, the certificate holder shall submit an annual report to the Department
38 addressing the following for the calendar year preceding the date of the report:
- 39 i. Facility Status: An overview of site conditions, the status of facilities under
40 construction and a summary of the operating experience of facilities that are in
41 operation. The certificate holder shall describe any unusual events, such as

⁵³ Applicable rule requirements established in OAR Chapter 345, Division 26 include OAR 345-026-0005 to OAR 345-026-0170.

1 earthquakes, extraordinary windstorms, major accidents or the like that occurred
2 during the year and that had a significant adverse impact on the facility.

- 3 ii. Reliability and Efficiency of Power Production: For electric power plants, the plant
4 availability and capacity factors for the reporting year. The certificate holder shall
5 describe any equipment failures or plant breakdowns that had a significant impact on
6 those factors and shall describe any actions taken to prevent the recurrence of such
7 problems.
- 8 iii. Status of Surety Information: Documentation demonstrating that bonds or letters of
9 credit as described in the site certificate are in full force and effect and will remain in
10 full force and effect for the term of the next reporting period.
- 11 iv. Monitoring Report: A list and description of all significant monitoring and mitigation
12 activities performed during the previous year in accordance with site certificate terms
13 and conditions, a summary of the results of those activities and a discussion of any
14 significant changes to any monitoring or mitigation program, including the reason for
15 any such changes.
- 16 v. Compliance Report: A report describing the certificate holder's compliance with all
17 site certificate conditions that are applicable during the reporting period. For ease of
18 review, the certificate holder shall, in this section of the report, use numbered
19 subparagraphs corresponding to the applicable sections of the site certificate.
- 20 vi. Facility Modification Report: A summary of changes to the facility that the certificate
21 holder has made during the reporting period without an amendment of the site
22 certificate in accordance with OAR 345-027-0350.
23 [OAR 345-026-0080]

24
25 **Conclusions of Law**

26
27 Based on the foregoing recommended findings of fact, conclusions of law, and subject to
28 recommended, mandatory and site-specific conditions, the Department recommends Council
29 find that the proposed facility would satisfy the requirements of OAR 345-022-0000.
30

31 **IV.B Organizational Expertise: OAR 345-022-0010**

32
33 *(1) To issue a site certificate, the Council must find that the applicant has the*
34 *organizational expertise to construct, operate and retire the proposed facility in*
35 *compliance with Council standards and conditions of the site certificate. To conclude*
36 *that the applicant has this expertise, the Council must find that the applicant has*
37 *demonstrated the ability to design, construct and operate the proposed facility in*
38 *compliance with site certificate conditions and in a manner that protects public*
39 *health and safety and has demonstrated the ability to restore the site to a useful,*
40 *non-hazardous condition. The Council may consider the applicant's experience, the*
41 *applicant's access to technical expertise and the applicant's past performance in*
42 *constructing, operating and retiring other facilities, including, but not limited to, the*
43 *number and severity of regulatory citations issued to the applicant.*
44

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

5
6 (3) *If the applicant does not itself obtain a state or local government permit or approval*
7 *for which the Council would ordinarily determine compliance but instead relies on a*
8 *permit or approval issued to a third party, the Council, to issue a site certificate, must*
9 *find that the third party has, or has a reasonable likelihood of obtaining, the*
10 *necessary permit or approval, and that the applicant has, or has a reasonable*
11 *likelihood of entering into, a contractual or other arrangement with the third party*
12 *for access to the resource or service secured by that permit or approval.*

13
14 (4) *If the applicant relies on a permit or approval issued to a third party and the third*
15 *party does not have the necessary permit or approval at the time the Council issues*
16 *the site certificate, the Council may issue the site certificate subject to the condition*
17 *that the certificate holder shall not commence construction or operation as*
18 *appropriate until the third party has obtained the necessary permit or approval and*
19 *the applicant has a contract or other arrangement for access to the resource or*
20 *service secured by that permit or approval.*

21
22 **Findings of Fact**

23
24 *Applicant and Parent Company*

25
26 The applicant, EE West End Solar LLC, is a limited liability company formed in the State of
27 Delaware on September 12, 2018. The applicant is authorized by the Oregon Secretary of State
28 to conduct work in (Registry Number 172382393) and has a registered agent in Oregon.⁵⁴ The
29 applicant has retained a resident attorney-in-fact from Stoel Rives LLP, Ms. Sarah Stauffer
30 Curtiss to support in the preparation and submission of the ASC.

31
32 The applicant is a wholly owned subsidiary of Eurus Solar Holdings, LLC. Eurus Solar Holdings
33 LLC is a wholly owned subsidiary of Eurus Energy America, LLC. Eurus Energy America, LLC is a
34 wholly owned subsidiary of Eurus Energy America Corporation (parent company). The applicant
35 and Eurus Solar Holdings LLC have executed a limited liability company agreement, effective
36 September 1, 2021.⁵⁵ This agreement establishes, in part, the ownership and management of
37 assets and interests by the applicant and its sole Member, Eurus Solar Holdings LLC.

38
39 The applicant's parent company is the North American branch of Eurus Energy Holdings
40 Corporation, an international renewable energy developer owned by Toyota Tsusho

⁵⁴ WESAPDoc3 ASC Exhibit A Applicant Information 2022-09-28. Attachments A-1 and A-2.

⁵⁵ WESAPDoc3 ASC Exhibit A Applicant Information 2022-09-28. Attachment A-3.

1 Corporation and Tokyo Electric Power Company.⁵⁶ The applicant is a project-specific LLC and, as
2 an individual LLC, does not have experience in designing and constructing energy facilities. The
3 applicant relies on the technical experience and financial assurance of its parent LLC and parent
4 company to demonstrate compliance with the standard.

5
6 Senior Legal Counsel for Eurus Energy America Corporation and EE West End Solar LLC, Anthony
7 Cresap, provides an August 9, 2021 letter affirming that based upon review of original or
8 certified copies of books and records, limited liability company records, certificate of public
9 officials, and instruments regarding the applicant, the applicant has the legal authority to
10 construct and operate the proposed facility without violating its articles of organization,
11 covenants or similar agreement.

12
13 Applicant is covered by comprehensive business, property and liability insurance. Applicant will
14 own the proposed facility, which will have an estimated value of \$80 million dollars, and will
15 generate revenue from a power purchase agreement or from selling power into the wholesale
16 market.⁵⁷

17
18 ~~The applicant and parent company affirm its intent to execute a performance guarantee prior~~
19 ~~to construction of the facility, using the form provided in Attachment D of this order. This~~
20 ~~guarantee affirms that the parent company unconditionally guarantees to Council the full and~~
21 ~~prompt payment and performance of all obligations, accrued and executory, which Eurus~~
22 ~~Energy Holdings LLC presently or hereafter may have under the site certificate. The guarantee~~
23 ~~also affirms that the parent company agrees to indemnify Council against any losses sustained~~
24 ~~and expenses incurred as a result of the enforcement or attempted enforcement by Council of~~
25 ~~any of its rights and remedies under the site certificate, in the event of a default by the~~
26 ~~applicant thereunder, and/or as a result of the enforcement or attempted enforcement by the~~
27 ~~EFSC of any of its rights against applicant hereunder. To ensure that that the guarantee is~~
28 ~~executed prior to construction of the facility, the Department recommends Council impose the~~
29 ~~following condition:~~

30
31 ~~**Recommended Organizational Expertise Condition 1 (PRE):** Prior to construction, the~~
32 ~~certificate holder shall submit to the Department a guarantee signed by its parent~~
33 ~~company guaranteeing payment and performance of the certificate holder's obligations~~
34 ~~under the site certificate using the form provided in Final Order on ASC Attachment D.~~

35
36 Applicant personnel includes a President and Chief Executive Officer; Vice President of
37 Development; Assistant Vice President of Development Engineering and Senior Counsel. The
38 qualifications of these individuals include:

- 39
40 • President and Chief Executive Officer: a degree in law; 20 years of experience in wind
41 power development; and employed by Euros Energy America for 14 years.

⁵⁶ "Who is Eurus Energy America?" <https://eurusenergy.com/about/>, accessed 6/13/2022

⁵⁷ WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02. Page 14 of 192.

- 1 • Vice President of Development: degrees in History, Psychology, International
2 Affairs/International Economics and Japan Studies; worked in the field of energy
3 development for 23 years; and employed by Euros Energy America for 10 years.
- 4 • Assistant Vice President of Development Engineering: degrees in Civil Engineering,
5 Construction Management; 15 years of experience in construction management
- 6 • Senior Counsel: degree in law, geography and environmental planning; 15 years of
7 experience as a land use attorney and planner; and employed with Euros for 25 years.

8
9 *Parent Company Experience in Constructing and Operating Wind and Solar Energy Facilities*

10
11 Parent company has developed over 700 megawatts (MW) of renewable energy generation in
12 the United States. This experience includes 4 wind projects from 1987 through 2012 ranging in
13 size from 41 to 250 MW; and 2 solar projects ranging in size from 2011-2017 ranging from 27 to
14 45 MW.

15
16 Applicant has not selected engineers, manufacturers or contractors.

17
18 *Compliance History*

19
20 An LLC owned by the applicant's parent company received a Notice of Violation (NOV) from the
21 Texas Public Utility Commission in December 2021. The NOV resolution is pending approval by
22 the Texas PUC. The information provided in ASC Exhibit D demonstrates that the applicant and
23 its parent company comply with, or take efforts to resolve, regulatory compliance issues.

24
25 *Recommended Opinion*

26
27 Based on compliance with recommended Organizational Expertise Condition 3(c)(4), 1-(pre-
28 construction execution of performance guarantee agreement between applicant and parent
29 company the Department's ability to review site certificate compliance status to determine the
30 adequacy of the decommissioning estimate which would provide the State protection if the
31 applicant went bankrupt or the Council opted to terminate the site certificate and the applicant
32 was unable to fulfil its facility decommissioning obligation) and financial assurance letter
33 provided in ASC Exhibit M (Attachment M-2), the Department recommends Council find that
34 the applicant has the ability to design, construct, operate and retire the proposed facility in
35 compliance with site certificate conditions and has the ability to obtain a bond or letter of
36 credit in a form and amount necessary to restore the site to a useful, nonhazardous condition.

37
38 The Department recommends Council impose the following conditions to ensure that the
39 facility is designed, constructed, operated and retired in a manner that protects public health
40 and safety.

41
42 *General Conditions*

1 **Recommended Organizational Expertise Condition ~~12~~ (GEN):** Any matter of non-
2 compliance under the site certificate is the responsibility of the certificate holder. Any
3 notice of violation issued under the site certificate will be issued to the certificate holder.
4 Any civil penalties under the site certificate will be levied on the certificate holder.
5

6 **Recommended Organizational Expertise Condition ~~23~~ (GEN):** The certificate holder must
7 notify the Department within 72 hours of any occurrence of the following:

- 8 a. There is an attempt by anyone to interfere with the facility's safe operation.
- 9 b. There is a significant nature event such as a fire, earthquake, flood, tsunami or tornado,
10 or human-caused event such as a fire or explosion.
- 11 c. There is any fatal injury at the facility.

12 [OAR 345-026-0170]
13

14 **Recommended Organizational Expertise Condition ~~34~~ (GEN):** The certificate holder shall, as
15 soon as reasonably possible:

- 16 a. Report incidents or circumstances that may violate the terms or conditions of the site
17 certificate, terms or conditions of any order of the Council, or the terms or conditions of
18 any order issued under OAR 345-027-0230, to the Department. In the report to the
19 Department, the certificate holder shall provide all pertinent facts including an estimate
20 of how long the conditions or circumstances existed, how long they are expected to
21 continue before they can be corrected, and whether the conditions or circumstances
22 were discovered as a result of a regularly scheduled compliance audit;
- 23 b. Initiate and complete appropriate action to correct the conditions or circumstances and
24 to minimize the possibility of recurrence;
- 25 c. Submit a written report within 30 days of discovery to the Department. The report must
26 refer to the language in (d) of the condition and contain:
 - 27 i. A discussion of the cause of the reported conditions or circumstances;
 - 28 ii. The date of discovery of the conditions or circumstances by the responsible party;
 - 29 iii. A description of immediate actions taken to correct the reported conditions or
30 circumstances;
 - 31 iv. A description of actions taken or planned to minimize the possibility of recurrence;
32 and
 - 33 v. For conditions or circumstances that may violate the terms or conditions of a site
34 certificate, an assessment of the impact on the resources considered under the
35 standards of OAR Chapter 345 Divisions 22 and 24 as a result of the reported
36 conditions or circumstances.

37 d. Upon receipt of the written report in sub(c) of this condition, the Department may
38 review the facility record for incidents or circumstances reported or reportable under
39 sub(a) related to public health and safety, the environment, or other resources
40 protected under Council standards. If these incidences are determined by the
41 Department to impact the adequacy of the facility decommissioning cost, the
42 Department or Council may adjust the contingencies identified in Final Order on ASC
43 Table 4 and shall request and receive an updated bond or letter of credit from
44 certificate holder in the adjusted amount.

1 [OAR 345-029-0010]
2

3 *Preconstruction Conditions*
4

5 **Recommended Organizational Expertise Condition 5 (PRE):** Prior to construction of the
6 facility, facility component or phase, as applicable, the certificate holder shall select a
7 construction contractor with a low rate of historic environmental and safety compliance
8 citations. Certificate holder shall provide the following documentation to the Department:

- 9 a. Qualifications and contact information of the of the major design, engineering and
10 construction contractor(s) and subcontractors, as applicable.
11 b. Construction contractor compliance history.
12 c. Contract excerpt affirming that contractors are required to comply with the terms
13 and conditions of the site certificate, including selecting design layout and
14 construction materials that minimize impacts to resources protected under Council
15 standards.
16

17 **Recommended Organizational Expertise Condition 6 (PRE):** Prior to construction, the
18 certificate holder shall provide to the Department the qualifications and contact
19 information of the certificate holder’s construction manager.
20

21 *Construction Conditions*
22

23 **Recommended Organizational Expertise Condition 7 (CON):** During construction, the
24 certificate holder shall:

- 25 a. Maintain an onsite construction manager.
26 b. Require that the construction manager implement and monitor all applicable
27 construction related site certificate conditions.
28 c. Within six months after beginning construction, and every six months thereafter
29 during construction of the energy facility and related or supporting facilities, the
30 certificate holder shall submit a semiannual construction progress report to the
31 Department. In each construction progress report, the certificate holder shall
32 describe any significant changes to major milestones for construction. The certificate
33 holder shall report on the progress of construction and shall address the following:
34 i. Facility Status: An overview of site conditions, the status of facilities under
35 construction and a summary of the operating experience of facilities that are in
36 operation. The certificate holder shall describe any unusual events, such as
37 earthquakes, extraordinary windstorms, major accidents or the like that
38 occurred during the year and that had a significant adverse impact on the
39 facility.
40 ii. Status of Surety Information: Documentation demonstrating that bonds or
41 letters of credit as described in the site certificate are in full force and effect and
42 will remain in full force and effect for the term of the next reporting period.
43 iii. Compliance Report: A report describing the certificate holder’s compliance with
44 all site certificate conditions that are applicable during the reporting period. For

1 ease of review, the certificate holder shall, in this section of the report, use
2 numbered subparagraphs corresponding to the applicable sections of the site
3 certificate.

- 4 iv. Facility Modification Report: A summary of changes to the facility that the
5 certificate holder has made during the reporting period without an amendment
6 of the site certificate in accordance with OAR 345-027-0050.
7 [OAR 345-026-0080(1)(a)]
8

9 *Operational Conditions*

10
11 **Recommended Organizational Expertise Condition 8 (PRO):** Prior to operation, the
12 certificate holder shall provide to the Department the qualifications and contact
13 information of the individuals responsible for monitoring facility operations, including
14 individuals or third-party entity responsible for onsite maintenance.
15

16 **Recommended Organizational Expertise Condition 9 (OPS):** During operations, the
17 certificate holder shall maintain records of operations and maintenance activities and shall
18 make available for Department review upon request.
19

20 *Public Health and Safety*

21
22 Proposed facility components including solar array, substation transformers, transmission line,
23 and battery storage system could result in health and safety impacts from unanticipated fire-
24 and electrical hazards. ASC Exhibit V and Section IV.N., *Wildlife Prevention and Risk Mitigation*,
25 provide an evaluation of potential fire related risks from proposed facility design, construction
26 and operation. Under Recommended Wildlife Prevention and Risk Mitigation Conditions 1
27 through 3, the applicant is required to submit and implement an Emergency Management and
28 Wildfire Mitigation Plan, which has design features, inspections, and emergency protocols
29 which would minimize public health and safety risks. The Department also recommends that
30 potential risks from handling and transport of spent or damaged battery and battery waste be
31 minimized by requiring that the applicant secure contracts with third-party operators
32 establishing that applicable federal battery transport requirement be adhered, as presented in
33 the condition below:
34

35 **Recommended Organizational Expertise Condition 10 (GEN):** The certificate holder shall
36 contractually require its third-party contractor used to transport and dispose battery and
37 battery waste to comply with all applicable federal regulations and manufacturer
38 recommendations related to the transport and handling of battery related waste.
39

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

41
42 The applicant's ability to restore the site to a useful, non-hazardous condition is evaluated
43 based on the applicant's experience decommissioning facilities, its environmental compliance
44 history, the adequacy of the facility decommissioning cost estimate provided in ASC Exhibit X,

1 and its ability to obtain a bond or letter of credit in the amount equivalent to the
2 decommissioning estimate.

3
4 Applicant and parent company do not have experience in decommissioning energy facilities.
5 Applicant and parent company have not received citations or warning related to spill or other
6 hazardous actions on any of its constructed or operating facilities. A financial institution
7 approved by Council for use in issuing bonds or letter of credits to meet the Retirement and
8 Financial Assurance standard, Sumitomo Mitsui Banking Corporation, provides a letter dated
9 July 7, 2021, that there is a reasonable likelihood of its willingness to provide a letter of credit
10 to the parent company up to \$5.8 million.^{58, 59}

11
12 *Third-Party Permits*

13
14 Resources needed for facility construction that will be secured through permits obtained by a
15 third-permit, include:

- 16 • Umatilla County Conditional Use Permit and Zoning Permit(s)
- 17 • Oversize Load Movement Permit
- 18 • Umatilla County Road Access Permit

19 The switchyard substation will be owned and operated by a third-party (the utility that owns
20 the transmission line that will provide grid-interconnection for the proposed facility).

21
22 The applicant has not selected its contractors, nor confirmed the third-party permits that will
23 be required for facility construction and operation. Therefore, no evidence has been provided
24 demonstrating that the applicant can obtain access to the resources secured by the permits.
25 The Department recommends Council impose the following condition requiring that adequate
26 evidence be provided for third-party permits and resources prior to construction:

- 27
28 **Recommended Organizational Expertise Condition 11 (GEN):** The certificate holder shall:
- 29 a. Provide to the Department a list of federal, state and local permits, including any third-
30 party permits related to facility siting; and a schedule for obtaining identified permits.
 - 31 b. Once obtained, provide copies of all permits, including third-party permits, required for
32 facility siting to the Department.

33
34 In addition, the Department recommends Council require that, prior to construction, the
35 applicant provide evidence of a shared-use agreement between the third-party and applicant
36 for use of the switching station during facility operation, and acknowledgement of the

⁵⁸ WESAPPD0c3-13 ASC Exhibit M Financial Capability 2022-10-24, Attachment M-2.

⁵⁹ At its January 28, 2022 EFSC Meeting, Council conducted its annual review and approval of financial institutions, where Sumitomo Mitsui Banking Corporation (SMBC, NY Branch) was approved as a financial institution for EFSC projects. WESAPPD0c8 EFSC Meeting-Item-B-Annual-Financial-Assurance-Update-Staff-Report and Mins 2022-01-28

1 applicant’s responsibilities under the site certificate for the switching station, a related or
2 supporting facility to the energy facility (see recommended Land Use Condition 6).

3
4 **Conclusions of Law**

5
6 Based on the recommended findings of fact and compliance with recommended conditions, the
7 Department recommends that the Council find that the applicant has the organizational
8 expertise to construct, operate and retire the proposed facility in compliance with the
9 Organizational Expertise standard.

10
11 **IV.C Structural Standard: OAR 345-022-0020**

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

15
16 *(a) The applicant, through appropriate site-specific study, has adequately*
17 *characterized the seismic hazard risk of the site;*

18
19 *(b) The applicant can design, engineer, and construct the facility to avoid dangers to*
20 *human safety and the environment presented by seismic hazards affecting the site,*
21 *as identified in subsection (1)(a);*

22
23 *(c) The applicant, through appropriate site-specific study, has adequately*
24 *characterized the potential geological and soils hazards of the site and its vicinity*
25 *that could, in the absence of a seismic event, adversely affect, or be aggravated by,*
26 *the construction and operation of the proposed facility; and*

27
28 *(d) The applicant can design, engineer and construct the facility to avoid dangers to*
29 *human safety and the environment presented by the hazards identified in subsection*
30 *(c).*

31
32 *(2) The Council may not impose the Structural Standard in section (1) to approve or deny*
33 *an application for an energy facility that would produce power from wind, solar or*
34 *geothermal energy. However, the Council may, to the extent it determines appropriate,*
35 *apply the requirements of section (1) to impose conditions on a site certificate issued for*
36 *such a facility.*

37 ***60

38

⁶⁰ OAR 345-022-0020(3) does not apply to this ASC because the proposed facility would not meet the criteria for a special criteria facility as defined in ORS 469.373(1).

1 **Findings of Fact**

2

3 The analysis area for review of geologic and soil stability, as evaluated under the Council’s
4 Structural Standard, is the area within the site boundary. The analysis area for historic seismic
5 and potentially active faults, as defined by the applicant, extends 50-miles from the proposed
6 site boundary.

7

8 As required under OAR 345-021-0010(1)(h), the applicant identified geological and soil stability
9 within the analysis area, and evaluated seismic and non-seismic hazards which could, adversely
10 affect or be aggravated by the construction or operation of the facility. Seismic Hazards
11 evaluated for the proposed facility include potential fault rupture, earthquake-induced
12 landslides, liquefaction and lateral spread, settlement, and subsidence. Non-Seismic geologic
13 hazards that the applicant evaluated included landslides, volcanic activity, erosion, flooding,
14 and shrinking and swelling soils.

15

16 Council rules at OAR 345-021-0010(1)(h)(B) require applicant consultation with the Oregon
17 Department of Geology and Mineral Industries (DOGAMI) on the appropriate methodology and
18 scope of the seismic hazards, and geology and soil-related hazards assessments, and the
19 appropriate site-specific geotechnical work to be completed to demonstrate compliance with
20 the Council’s Structural Standard. The applicant consulted with DOGAMI and the Department
21 on June 10, 2021, and discussed the methodology for the seismic hazard assessment, and the
22 appropriate methods to evaluate seismic hazards at the site. Notes from the June 10, 2021
23 consultation were provided as Attachment H-1 of ASC Exhibit H, and summarize DOGAMI’s
24 recommendations to the applicant for clear references of sources used for data references, and
25 to look at all the appropriate resources and data sources.⁶¹

26

27 As described further below, the applicant represents that prior to design and construction, it
28 would conduct a site-specific geotechnical assessment to confirm the anticipated soil conditions
29 including bearing capacity of the soils, address subsurface exploration plans and testing plans,
30 and provide engineering recommendations for the final design of the proposed facility
31 structures.⁶²

32

33 *Potential Seismic Hazards*

34

35 OAR 345-022-0020(1)(a) and (b) requires the applicant adequately characterize the seismic
36 hazards of the proposed site, and demonstrate an ability to design, engineer and construct the
37 proposed facility to avoid dangers to human safety and the environment from seismic hazards
38 affecting the site. The applicant identified potential seismic hazards by conducting a literature
39 review that included topographic and geologic maps, aerial photographs, existing geologic
40 reports and data provided by; the Oregon Department of Geology and Mineral Industries

⁶¹ WESAPDoc3-8 ASC Exhibit H Geological Soil Stability 2022-09-28. Attachment H-1.

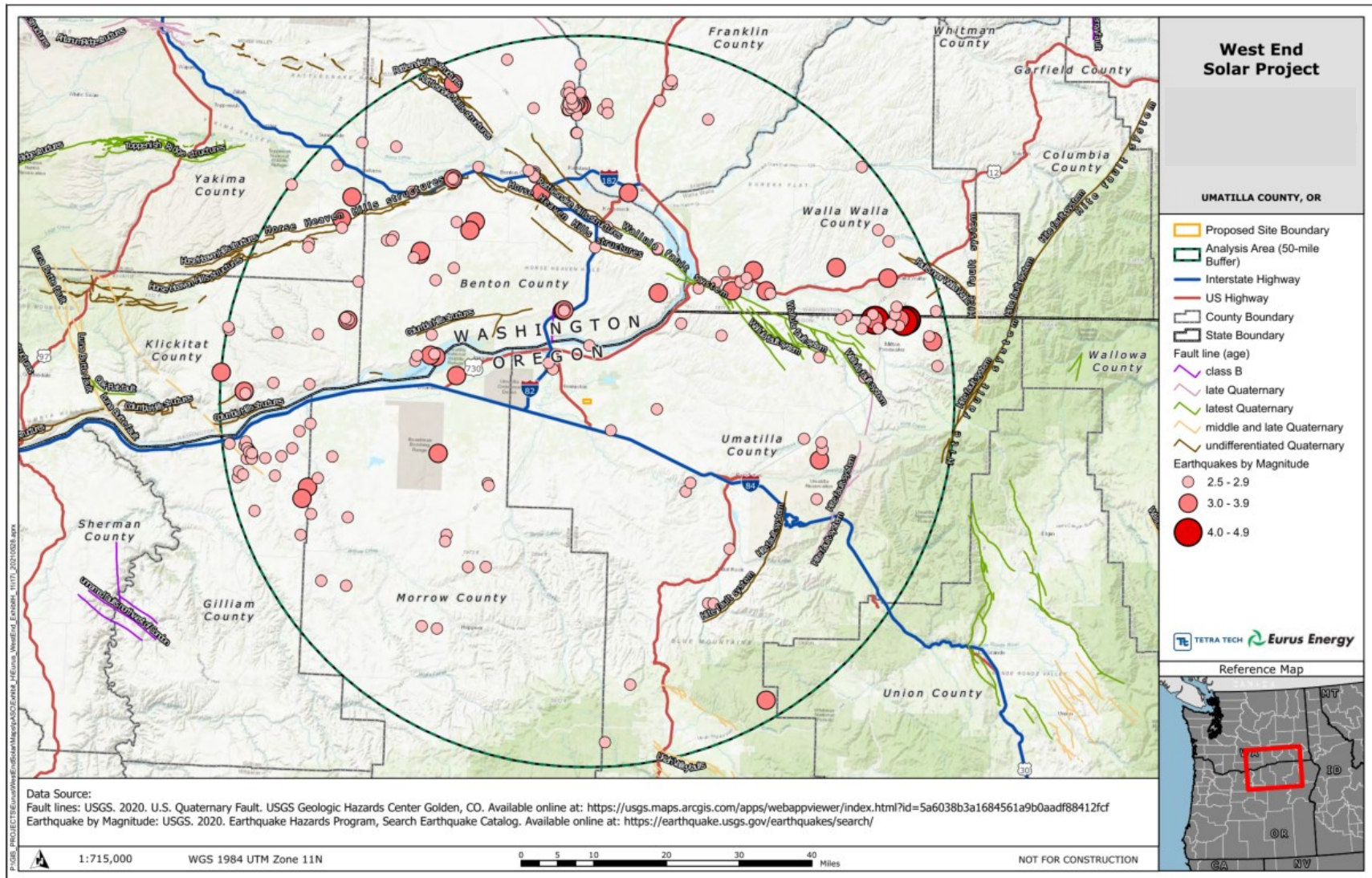
⁶² OAR 345-021-0010(1)(h) requires that ASC Exhibit H rely on “reasonably available sources” regarding the geological and soil stability within the analysis area.

1 (DOGAMI), the Oregon Water Resources Department (OWRD), U.S. Geological Survey (USGS),
2 and the Natural Resources Conservation Service (NRCS). Impacts evaluated by the applicant
3 included fault displacement, ground shaking, liquefaction, behavior of subsurface materials,
4 and adverse effects from groundwater or surface water.
5 Based on their literature review, a desktop evaluation, and DOGAMI consultation, the applicant
6 anticipates the risk of seismic hazards at the proposed facility to be low. Data from The National
7 Earthquake Information Center shows no earthquakes within the site boundary. There are no
8 known or active faults mapped within the site boundary. The area is likely not in any landslide
9 hazard zone based on data accessed thus far. DOGAMI agreed there would be no landslides in
10 project area/vicinity and that the area is very flat.

11
12 A commitment to conduct a site specific geotechnical exploration prior to final design and
13 construction would to ensure safe design, construction, and operation of the proposed facility.
14 Requirements to include a description of any potentially active faults within the proposed site
15 boundary and their potential risk to the proposed facility, a determination of the final Site Class
16 for the proposed site boundary area to be applied to final design, and any additional mitigation
17 that will be undertaken by the applicant to ensure safe design, construction, and operation of
18 the proposed facility are recommended by the Department for Council to impose as
19 recommended Structural Standard Condition 1 (below). The criteria of the site-specific
20 geotechnical investigation are the applicant’s representations made in ASC Exhibit H, to ensure
21 a safe design, construction, and operation of the proposed facility.

22
23 Figure 3 provides the locations of historic seismicity and potentially active faults within the 50-
24 mile analysis area, and in relation to the proposed facility site. As shown in the figure, no
25 earthquakes are located within 10 miles of the site and the closest earthquakes were fairly
26 small.

1 **Figure 3: Historic seismicity and potentially active faults in relation to the West End Solar Project**



1 Maximum Considered Earthquake Ground Motion under IBC 2015 was considered by the
2 applicant at the proposed site by using a probabilistic seismic hazard analysis from the USGS
3 Unified Hazard Tool (USGS 2020a). Based on the data from the USGS 2020a hazard tool, at the
4 bedrock surface at the center of the site, at 475 and 2,475-year intervals, earthquakes have
5 peak ground acceleration of 0.198g, where “g” is the acceleration of gravity.
6

7 Completion of a site-specific geotechnical analysis prior to construction would be used to
8 evaluate risks of any potentially active faults within the site boundary, determine the soil
9 characteristics and Site Class, and to inform additional mitigation to ensure safe design,
10 construction, and operation of the facility. The Department recommends Council require that
11 the geotechnical investigation include a site-specific probabilistic seismic hazards assessment,
12 unless otherwise approved by the Department in consultation with DOGAMI, to appropriately
13 inform site class design requirements. The Department recommends Council impose the
14 following conditions to ensure compliance with the applicants’ commitment to conduct
15 additional Geotechnical analysis:
16

17 **Recommended Structural Standard Condition 1 (PRE):** Before beginning construction,
18 the certificate holder shall submit a site-specific geotechnical investigation report,
19 consistent with the Oregon State Board of Geologist Examiners Guideline for Preparing
20 Engineering Geologic Reports, or newer guidelines if available to the Department, for
21 review in consultation with its third-party consultant or DOGAMI. The site specific
22 geotechnical investigation report shall include information on any potentially active
23 faults within the site boundary, soil characteristic and Site Class determination, and
24 include a site-specific probabilistic seismic hazards assessment to inform Site Class
25 design.
26

27 **Recommended Structural Standard Condition 2 (GEN):** The certificate holder shall
28 design, engineer and construct facility components based on Site Class (soils-related
29 category) determined through the site-specific geotechnical investigation (Structural
30 Standard Condition 1), as reviewed and approved by the Department in consultation
31 with its third-party consultant or DOGAMI.
32

33 Based on review of ASC Exhibit H and consultation with DOGAMI, the Department recommends
34 Council find that potential seismic hazards at the site have been adequately characterized and
35 that the applicant will design, construct and operate the proposed facility in a manner that
36 would minimize public health and safety risks from these hazards. Nonetheless, the Council’s
37 Mandatory Conditions at OAR 345-025-0006(12) – (14) provide structural related design
38 requirements, which the Department recommends Council find sufficient to address the
39 applicant’s ability to design the proposed facility to minimize risks to public health and safety
40 and the environment from a seismic event, as represented below:
41

42 **Recommended Structural Condition 3 (GEN):** The certificate holder must design,
43 engineer and construct the facility to avoid dangers to human safety and the
44 environment presented by seismic hazards affecting the site that are expected to result

1 from all maximum probable seismic events. As used in this rule “seismic hazard”
2 includes ground shaking, ground failure, landslide, liquefaction triggering and
3 consequences (including flow failure, settlement buoyancy, and lateral spreading), cyclic
4 softening of clays and silts, fault rupture, directivity effects and soil-structure
5 interaction. For coastal sites, this also includes tsunami hazards and seismically-induced
6 coastal subsidence.

7 [Mandatory Condition OAR 345-025-0006(12)]
8

9 **Recommended Structural Condition 4 (GEN):** The certificate holder must notify the
10 Department, the State Building Codes Division and the Department of Geology and
11 Mineral Industries promptly if site investigations or trenching reveal that conditions in
12 the foundation rocks differ significantly from those described in the application for a site
13 certificate. After the Department receives the notice, the Council may require the
14 certificate holder to consult with the Department of Geology and Mineral Industries and
15 the Building Codes Division to propose and implement corrective or mitigation actions.

16 [Mandatory Condition OAR 345-025-0006(13)]
17

18 **Recommended Structural Condition 5 (GEN):** The certificate holder must notify the
19 Department, the State Building Codes Division and the Department of Geology and
20 Mineral Industries promptly if shear zones, artesian aquifers, deformations or clastic
21 dikes are found at or in the vicinity of the site. After the Department receives notice, the
22 Council may require the certificate holder to consult with the Department of Geology
23 and Mineral Industries and the Building Codes Division to propose and implement
24 corrective or mitigation actions.

25 [Mandatory Condition OAR 345-025-0006(14)]
26

27 *Non-Seismic Geologic Hazards and Design Measures to Avoid Non-Seismic Hazards*
28

29 OAR 345-022-0020(1)(c) and (d) require that the applicant adequately characterize the
30 nonseismic hazards of the proposed site; and, that the applicant demonstrate an ability to
31 design, engineer and construct the proposed facility to avoid dangers to human safety and the
32 environment from the identified hazards.

33
34 To evaluate the presence of non-seismic geologic hazards, the applicant conducted a literature
35 review and field reconnaissance. The literature review evaluated various sources including
36 DOGAMI’s Statewide Landslide Information Database for Oregon, Release 2 (SLIDO-2) database,
37 topographic maps, geologic maps and aerial photographs. The field reconnaissance of the
38 facility site was used to evaluate erosion potential and collapsing soils. Based on the sources
39 and field evaluation, the potential non-seismic geologic hazards within the analysis area include
40 landslides/slope instability, erosion, flooding and shrinking and swelling soils.

41
42 The preconstruction geotechnical investigation (recommended Structural Standard Condition 1)
43 will identify any onsite slope stability and shrink-swell soil issues. The applicant is required to
44 avoid any identified slope stability issues or implement remedial measures; and, over-excavate

1 and replace loess soil with structural-fill, wetting and compacting, deep foundations, or
2 avoidance (recommended Structural Standard Condition 2). Wind and water erosion will be
3 mitigated through installation of silt fences, physical controls and other best management
4 practices (as recommended be required during construction and operation under Soil
5 Protection Conditions 1, 2 and 3). Onsite flood risk will be avoided by designing access roads
6 and drainages in a manner that directs stormwater runoff away from structures and into
7 drainage ditches and culverts (recommended Land Use Condition 1).

8
9 Based on compliance with the above-recommended conditions, the Department recommends
10 Council find that potential nonseismic hazards at the site have been adequately characterized
11 and that the applicant will design, construct and operate the proposed facility in a manner that
12 would minimize public health and safety risks from these hazards.

13
14 **Conclusions of Law**

15
16 Based on the foregoing analysis, and in compliance with OAR 345-022-0020(2), the Department
17 recommends that the Council find that with the inclusion of the conditions listed above, the
18 proposed facility can be constructed and operated in compliance with the requirements of the
19 Structural Standard.

20
21 **IV.D Soil Protection: OAR 345-022-0022**

22
23 *To issue a site certificate, the Council must find that the design, construction and*
24 *operation of the facility, taking into account mitigation, are not likely to result in a*
25 *significant adverse impact to soils including, but not limited to, erosion and chemical*
26 *factors such as salt deposition from cooling towers, land application of liquid effluent,*
27 *and chemical spills.*

28
29 **Findings of Fact**

30
31 The analysis area for the Soil Protection standard is the area within the site boundary, as
32 established in the Expedited Review Project Order.

33
34 *Existing Soil Conditions and Land Use*

35
36 The Natural Resources Conservation Service Soil Data (NRCS) identifies the soil types within the
37 analysis area as Adkins fine sandy loam (which constitutes approximately 73 percent of the 324
38 acre analysis area), and Quincy fine sand (approximately 27 percent of the analysis area). Both
39 soil types are at least seven feet thick, have slopes ranging from zero to five percent, and have
40 low to moderately low runoff. The erosion factor that indicates the susceptibility of a soil to
41 erosion by water, or “K factor” of both soil types, ranges from approximately 0.1 to 0.32, which
42 could be considered slight to moderate erodibility. Wind erosion is moderate for the Adkins fine
43 sandy loam and is severe for the Quincy fine sand. The land within the analysis area is zoned as

1 Exclusive Farm Use by Umatilla County, and uses of the land include fallow agriculture.⁶³ Adkins
 2 fine sandy loam is considered prime farmland if irrigated, whereas the Quincy fine sand is not
 3 considered prime farmland.

4
 5 Soil characteristics including the NRCS capability class and farmland rating of the two soil types
 6 in the analysis area are presented in Table 1: *Soil Characteristics within and Adjacent to the*
 7 *Proposed Site Boundary* below.

8 **Table 1: Soil Characteristics within and Adjacent to the Proposed Site Boundary**

NRCS Soil Unit	NRCS Soil Capability Class (irrigated; nonirrigated)	NRCS Farmland Rating	Water Erosion (K-factor)	Wind Erosion	Permeability
1B -- Adkins fine sandy loam	Class 2; Class 4	Prime if irrigated	0.32 (Moderate)	Moderate	High
74B -- Quincy fine sand	Class 4; Class 7	Not prime	0.1 (Slight)	Severe	Very High

9
 10 *Potential Adverse Impacts to Soil*

11
 12 To evaluate potential adverse impacts to soils, the applicant considers the entire area within
 13 the site boundary (324 acres) subject to temporary or permanent disturbance.

14
 15 *Construction*

16
 17 Proposed facility construction could result in adverse impacts to soils from construction
 18 activities such as site preparation, grading, equipment use, and on-site traffic which can cause
 19 erosion, compaction, loss of vegetation, and soil contamination from spills and leaks.

20
 21 The Oregon Department of Environmental Quality’s (ODEQ) National Pollutant Discharge
 22 Elimination System stormwater discharge permit (NPDES-1200C permit) would not be required
 23 for this facility because there are no surface waters, wetlands, ditches, or conveyance systems
 24 within or adjacent to the proposed site boundary, therefore, there is no possibility of
 25 stormwater (rainfall or snowmelt) running off the site into surface waters of the state or into a
 26 conveyance systems leading to surface waters of the state. The applicant describes best
 27 management practices (BMPs) to reduce and mitigate soil impacts in ASC Exhibit I, Attachment
 28 I-1: Erosion Sediment Control Measures, also attached to this order. As recommended below in
 29 Soil Protection Condition 1, the Erosion Sediment Control Measures would be finalized prior to
 30 construction of the facility. Attachment I-1 also includes additional measures the applicant

⁶³ The NRCS web soil survey defines fallow as “Cropland left idle in order to restore productivity through accumulation of moisture. Summer fallow is common in regions of limited rainfall where cereal grain is grown. The soil is tilled for at least one growing season for weed control and decomposition of plant residue.”
<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

1 discusses in Exhibits P (Fish and Wildlife Habitat), K (Land Use), and U (Public Services). The
2 erosion and sediment control measures and best management practices (BMP's) include the
3 following:

- 4 • Minimizing to the maximum extent practicable, grading at the site and unnecessary
5 disturbance, while preserving existing vegetation where practical. A scheduled/phased
6 grading approach would minimize soil exposure and prevent exposed inactive areas
7 from becoming a source of erosion, and minimize fugitive dust.
- 8 • Sediment basins and traps will be located at low points below disturbed areas. Earth
9 dikes or swales will be implemented as needed to route drainage from disturbed areas
10 into the basins. Sediment barriers and sediment fences will be placed below small,
11 disturbed areas on gentle to moderate slopes.
- 12 • Vegetate and mulch disturbed areas. Temporary and/or permanent soil stabilization
13 measures immediately on all disturbed areas as grading progresses. Seed and mulch
14 exposed soil as soon as practicable after grading is completed.
- 15 • Implement fugitive dust abatement measures that include the application of water, soil-
16 binding agents, or other dust control techniques to avoid wind-blown soil. If soil-binding
17 agents are used, they will be applied in a way to not travel beyond the site. Fugitive dust
18 from truck traffic would be minimized by applying water to access roads and by keeping
19 paved public rights-of-way (ROW) clean or wet down. Stabilized construction exits will
20 be used to assist with cleaning of truck tires as the vehicles leave unpaved areas.
21 Airborne dust wet suppression system and water spray mist would be required for soil
22 loading, hauling, and backfilling.
- 23 • Areas where soils are stockpiled, a combination of the following measures may be
24 implemented: water spray/mist, soil-binding agents, and/or other dust suppression
25 systems such as covering stockpiles particularly if sustained wind greater than 20 miles
26 per hour are expected.

27
28 In addition to the potential construction related erosion impacts, proposed facility construction
29 may cause localized soil compaction. Haul trucks and heavy equipment would induce soil stress,
30 may compact the native soils on the site. To minimize and mitigate soil compaction, the
31 applicant proposes to scarify and reseed affected areas after construction. The Department
32 recommends Council impose Recommended Soil Protection Condition 1, which would require
33 the certificate holder finalize the Erosion Sediment Control Measures with the Department (in
34 consultation with ODEQ) for review and approval, prior to construction. The Erosion Sediment
35 Control Measures shall be based upon the draft plan provided in Attachment I-1 of Exhibit I.

36
37 **Recommended Soil Protection Condition 1 (PRE):** Prior to construction, the certificate
38 holder shall submit for review and approval to the Department, in consultation with ODEQ,
39 the Erosion Sediment Control Measures to be implemented during construction, consistent
40 with the measures included in Attachment I-1 of the Final Order on the ASC. Components of

1 the plan to be finalized shall take into consideration site specific information obtained
2 during the preconstruction geotechnical investigation, and the final facility design.

3
4 **Recommended Soil Protection 2 (CON):** During construction, the certificate holder shall
5 conduct all work in compliance with the final Erosion Sediment Control Measures approved
6 in Soil Protection Condition 1, as modified by the Department, as necessary.

7
8 **Recommended Soil Protection 3 (OPS):** During operation, the certificate holder shall
9 conduct all work in compliance with the final Erosion Sediment Control Measures approved
10 in Soil Protection Condition 1, as applicable, and as modified by the Department, as
11 necessary.

12
13 Facility construction activities could result in soil contamination hazards including leakage and
14 spillage of fuels or lubricants associated with construction equipment, or the from other
15 industrial materials including oils, lubricants, and solvents. During construction, on-site fuel
16 storage (i.e., for back-up generators, etc.) may be placed in designated areas within temporary
17 staging areas. Secondary containment and refueling procedures for on-site fuel storage will
18 follow the contractor’s Spill Prevention, Control, and Countermeasures Plan, discussed further
19 below. For the Construction SPCC, the Construction Project Manager or its designee, will assure
20 that for any tank, container or drum of oil, diesel or chemical, equal to or greater than 55
21 gallons, the following prevention and control measures will be provided at all times:

- 22 1. Secondary containment of at least 110 percent of the volume of the primary container.
- 23 2. Routine inspection of fluid levels and containment conditions.
- 24 3. Spill Response equipment and personnel available and prepared to deploy.
- 25 4. Site Security to control access to equipment and property.

26 Spill Prevention, Control, and Countermeasures (SPCC) Plan outline is provided in ASC
27 Attachment B-2. Prior to construction, the applicant will retain a contractor to prepare a SPCC
28 Plan that would comply with 40 CFR 112 (Oil Pollution Prevention), including the safe cleanup of
29 hazardous materials. The SPCC plan will include the following steps that will be followed in the
30 event of a spill:

- 31 1. Eliminate potential ignition sources;
- 32 2. Identify and shut down source of the discharge to stop the flow;
- 33 3. Contain the discharge with sorbents, berms, fences, trenches, sandbags, etc.;
- 34 4. Contact the Facility Manager or his/her alternate;
- 35 5. Contact regulatory authorities and the response organization; and
- 36 6. Collect and dispose of recovered products according to regulation.

37 The Department recommends Council require that the applicant develop, maintain, and
38 conduct all work in compliance with an SPCC Plan, by imposing the following Conditions:
39

1 **Recommended Soil Protection Condition 4 (PRE):** Prior to construction, the certificate
2 holder shall prepare and submit to the Department a construction Spill Prevention
3 Control and Countermeasure Plan (SPCC), based on the draft SPCC Plan outline included
4 in Attachment B-2 of the Final Order on the ASC.

5
6 **Recommended Soil Protection Condition 5 (CON):** During construction, the certificate holder shall
7 conduct all work in compliance with the final construction SPCC Plan. Certificate holder
8 shall report spill and cleanup activities to the Department within 72 hours and shall
9 make inspection records available to the Department upon request.

10
11 *Operation*

12 Operation activities that could result in negative impacts to soils including erosion, compaction
13 and contamination, would occur from solar panel washing, routine service maintenance of the
14 facility components, and inadvertent spills from facility components.

15
16 Solar panels may be washed twice a year. Washwater from panel washing could negatively
17 impact soils through contamination, if soaps and detergents are used or if paints and finishes
18 are degraded with pressure washing; and, impacts to bioorganisms if overly heated water is
19 used. To minimize these potential impacts, the Department recommends Council impose the
20 following condition prohibiting use of chemicals, soaps, and detergents, unless Chemical Safety
21 Data Sheets for low volatile organic compound/biodegradable cleaning chemicals and solvents
22 are submitted to the Department for review and approval. The Department also recommends
23 that the condition prohibit use of heated water and authorize pressure washing, so long as it
24 does not remove paint or other finishes.

25
26 **Recommended Soil Protection Condition 6 (OPR):** During facility operation, if solar
27 panel washing is planned to occur, the use of chemicals, soaps, detergents and heated
28 water is prohibited, unless Chemical Safety Data Sheets for low volatile organic
29 compound/biodegradable cleaning chemicals and solvents are submitted to the
30 Department for review and approval. Pressure washing is allowed, so long as it does not
31 remove paint or other finishes.

32
33 The transformers associated with the solar panels would contain approximately 550 gallons of
34 transformer oil. The main power transformer at the collector substation would contain
35 approximately 14,000 gallons of transformer oil and may use a reinforced concrete pit to retain
36 any oil that may be accidentally spilt from the transformer per applicable code and local
37 requirements. Each transformer area would have a drainage sump for the collection of liquid
38 within the containment. The design would allow for oil/water separation and a berm and liner
39 solution may be considered, for oil containment, if it complies with all relevant codes and has a
40 minimum lifespan of 30 years free of maintenance.

41
42 Hazardous materials used at the site during operation may include fuels, paint, spent oils,
43 solvents, and pesticides will be stored in an operations and maintenance enclosure. Spill kits

1 containing items such as absorbent pads would be located on equipment and in on site
2 temporary storage facilities to respond to accidental spills.

3 The ESS would either include an air or liquid coolant associated with a fire suppression system.
4 Liquid cooled lithium-ion batteries use coolant similar to automotive antifreeze. The coolant, if
5 used, is then recirculated through a closed system to cool the batteries. The battery storage
6 units would also be contained and located upon concrete or gravel pads which would prevent
7 seepage into soils.

8
9 Given the oil-containment capacity of the transformers, secondary containment and an SPCC
10 are required. The Department recommends Council impose conditions to ensure that an
11 operational SPCC is developed and implemented to address potential spill-related incidents
12 during operations.

13
14 **Recommended Soil Protection Condition 7 (PRO):** Prior to operation, the certificate
15 holder shall submit to the Department a final copy of an Operational Spill Prevention
16 Control and Countermeasures Plan (SPCC Plan).

17
18 **Recommended Soil Protection Condition 8 (OPR):** During operations, the certificate
19 holder shall submit any updates of the SPCC Plan in the annual report to the
20 Department. Operational activities shall adhere to the requirements of the SPCC Plan.
21 Certificate holder shall report spill and cleanup activities to the Department within 72
22 hours and shall make inspection records available to the Department upon request.

23
24 **Conclusions of Law**

25
26 Based on the foregoing findings of fact and conclusions of law, and subject to compliance with
27 the recommended site certificate conditions, the Department recommends that the Council
28 find that the proposed facility would comply with the Soil Protection standard.

29
30 **IV.E Land Use: OAR 345-022-0030**

31
32 *(1) To issue a site certificate, the Council must find that the proposed facility complies*
33 *with the statewide planning goals adopted by the Land Conservation and Development*
34 *Commission.*

35
36 *(2) The Council shall find that a proposed facility complies with section (1) if:*

37
38 *(a) The certificate holder elects to obtain local land use approvals under ORS*
39 *469.504(1)(a) and the Council finds that the facility has received local land use*
40 *approval under the acknowledged comprehensive plan and land use regulations of*
41 *the affected local government; or*
42

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

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

8
9 ***(B) For a proposed facility that does not comply with one or more of the***
10 ***applicable substantive criteria as described in section (3), the facility otherwise***
11 ***complies with the statewide planning goals or an exception to any applicable***
12 ***statewide planning goal is justified under section (4); or***

13
14 ***(C) For a proposed facility that the Council decides, under sections (3) or (6), to***
15 ***evaluate against the statewide planning goals, the proposed facility complies***
16 ***with the applicable statewide planning goals or that an exception to any***
17 ***applicable statewide planning goal is justified under section (4).***

18 ***(3) As used in this rule, the "applicable substantive criteria" are criteria from the affected***
19 ***local government's acknowledged comprehensive plan and land use ordinances that are***
20 ***required by the statewide planning goals and that are in effect on the date the applicant***
21 ***submits the application. If the special advisory group recommends applicable substantive***
22 ***criteria, as described under OAR 345-021-0050, the Council shall apply them. If the special***
23 ***advisory group does not recommend applicable substantive criteria, the Council shall***
24 ***decide either to make its own determination of the applicable substantive criteria and***
25 ***apply them or to evaluate the proposed facility against the statewide planning goals.***

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

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

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

38 ***(c) The following standards are met:***

1 *(A) Reasons justify why the state policy embodied in the applicable goal should*
2 *not apply;*

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

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

9 ***

10 **Findings of Fact**

11 The analysis area for potential land use impacts, as defined in the Project Order, is the area
12 within and extending 0.5-mile from the site boundary.

13
14 The applicant elects for Council to make a determination of compliance with applicable
15 substantive criteria from Umatilla County Development ~~Ordinance or~~ Code (UCDC) pursuant to
16 ORS 469.504(1)(b)(B). The Land Use standard therefore requires the Council to find that the
17 proposed facility complies with local applicable substantive criteria and statewide planning
18 goals adopted by the Land Conservation and Development Commission (LCDC) or take an
19 exception to an applicable goal.⁶⁴ Compliance with applicable substantive criteria must be
20 demonstrated for proposed facility components based on the appropriate land use category
21 and zone. The proposed facility includes the following land use category and zone:

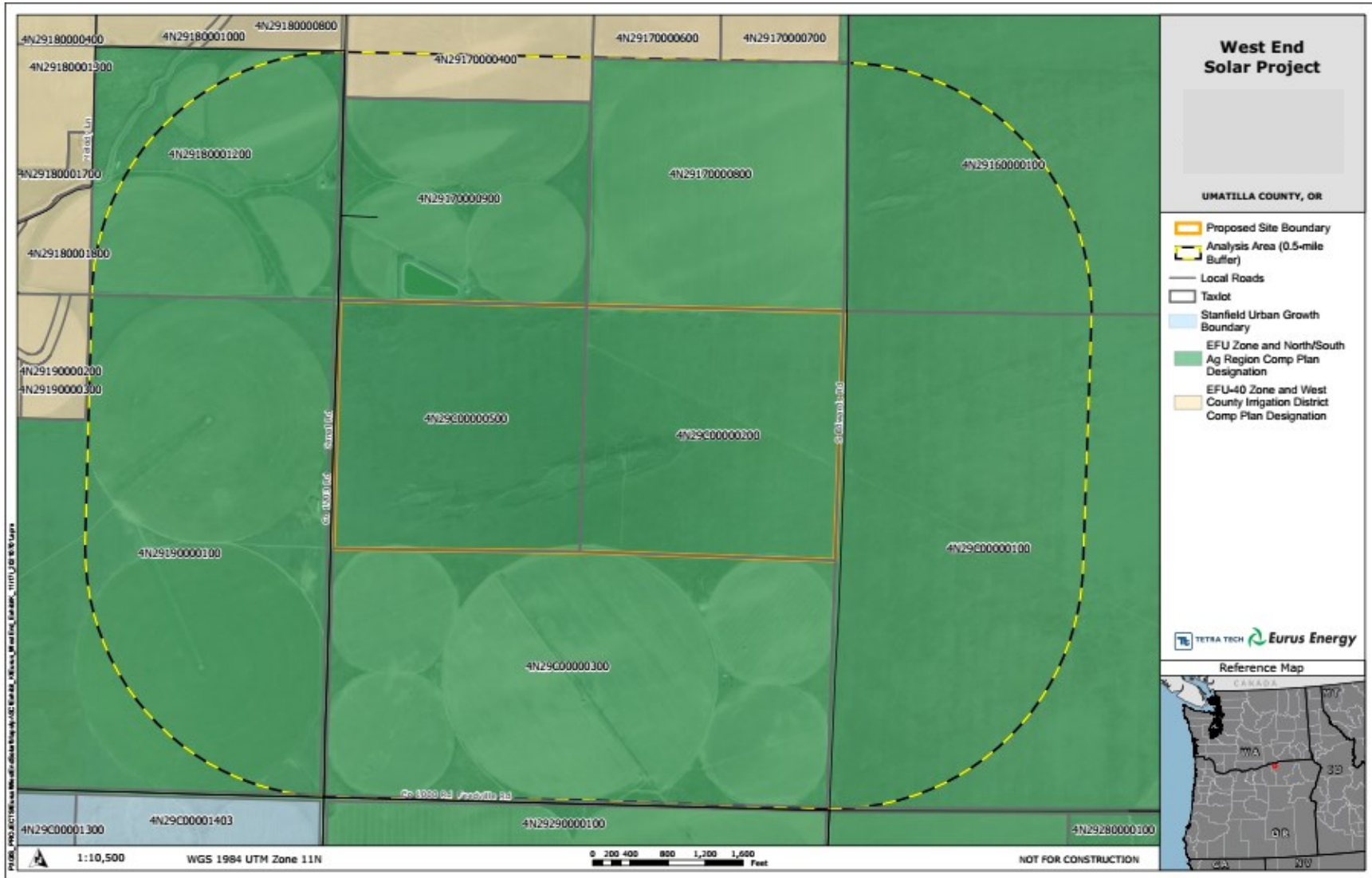
- 22
23 • Commercial solar power generation facility, Exclusive Farm Use (EFU) zone⁶⁵
24 ○ Up to 324 acres of solar PV energy generation components

25
26 Figure 4 below presents the 0.5-mile land use analysis area, the proposed site boundary, the
27 underlying land use zone, comprehensive plan designation and map, and tax lot number.

⁶⁴ The Council must apply the Land Use standard in conformance with the requirements of ORS 469.504.

⁶⁵ As presented in ASC Exhibits B and C, the proposed facility omits an interconnection transmission line because of the interconnection opportunities with 2 existing transmission lines intersecting the site boundary, and an existing transmission line paralleling the eastern site of the site boundary along S. Edwards Road. Therefore, because the facility does not need an interconnection transmission line and the proposed substation/switching station can interconnect to an existing line, on site or in direct proximity to the site, the requirements for a “utility necessary for public service” under UCDC 152.059(C) and 152.617(II)(7) are not applicable to the land use evaluation. WESAPPD0c7-2 Reviewing Agency Comment SAG Umatilla County_Waldher 2022-10-26.

1 **Figure 4: Land Use Analysis Area, Proposed Facility Site Boundary and Zoning/Comprehensive Plan Designations**



IV.E.1 Applicable Substantive Criteria

“Applicable substantive criteria” are criteria from the affected local government’s (Umatilla County) acknowledged comprehensive plan and land use ordinance, which then must satisfy two requirements. The criteria within the acknowledged comprehensive plan and land use regulations must 1) be required by the statewide planning goals applicable to the proposed facility based on facility type or facility component and land use zone, and 2) be in effect on the date the applicant submits the preliminary application for site certificate (pASC), which in this instance occurred on November 5, 2021.⁶⁶

For this ASC, the applicant requests a Council determination under ORS 469.504(1)(b)(B), which requires:

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

ORS 469.504(1)(b)(B), as presented above, allows for Council to find that an applicant has satisfied the requirements of the Land Use standard, even if the proposed facility cannot comply with one or more “applicable substantive criteria” if the proposed facility otherwise complies with applicable statewide planning goals or demonstrates that an exception to the applicable statewide planning goal is justified. Strict compliance with “applicable substantive criteria” is therefore not required if compliance with statewide planning goals is demonstrated or Council finds that an exception is justified.

The affected local governments include the governing bodies of the jurisdictions for which proposed facility components would be located, which in this instance includes the governing bodies of Umatilla County – Umatilla Board of County Commissioners, appointed as a special advisory group (SAG) on November 24, 2021.⁶⁷

Table 2 below provides the applicable substantive criteria recommended by the SAG.⁶⁸

Table 2: Umatilla County Development Code (UCDC)¹

Code Section	Title
Exclusive Farm Use (EFU) Zone Requirements	
§152.025	Zoning Permit
§152.060	Conditional uses permitted
§152.061	Standards for all conditional uses

⁶⁶ OAR 345-022-0030(3); ORS 469.504(1)(b)(A).

⁶⁷ WESAPDoc3 West End Solar SAG Appointment Order Umatilla County 2021-11-19

⁶⁸ WESAPDoc6-2 pASC Reviewing Agency Comment SAG Umatilla County Murdock 2021-12-15.

Table 2: Umatilla County Development Code (UCDC)¹

§152.063	Development standards
§152.010	Access to Buildings, Private Driveways and Easements
§152.011	Vision Clearance
§152.015	Fences
§152.562	Off-Street Parking and Loading Requirements
§152.615	Additional Conditional Use Permit Restrictions
Umatilla County Comprehensive Plan (UCCP)⁴²	
Chapter 6: Agriculture Policies 1, 8 and 17	
Chapter 8: Open Space, Scenic and Historic Areas, and Natural Areas Policies 1(a), 5(a & b), 6(a), 8(a), 9(a), 10(c, d & e), 20 (a), 20(b)(1-8), 22, 23(a), 24(a), 26, 37 & 38(a-c), 39(a) and 42(a)	
Chapter 9: Air, Land, and Water Quality Policies 1, 7 and 8	
Chapter 10: Natural Hazards Policies 1 and 4	
Chapter 11: Recreational Needs Policy 1	
Chapter 12: Economy of the County Policies 1, 4 and 8(a-f)	
Chapter 14: Public Facilities and Services Policies 1(a-d), 2, 9 and 19	
Chapter 15: Transportation Policies 18 and 20	
Chapter 16: Energy Conservation Policy 1	
Notes:	
<p><u>1. Umatilla County confirmed that UCDC 152.562(l) (1-7) consists of parking lot design standards intended to apply to publicly accessible businesses. Because the proposed facility is not a public-use facility the parking lot design standards do not apply to the proposed facility. These criteria have been removed from list of “applicable substantive criteria” in Table 2 of the proposed order and from the land use evaluation in Section IV.E.1 (resulting in removal of recommended Land Use Condition 2(d)).⁶⁹</u></p> <p>1-2. Rather than recommend findings on the broad policies and goals articulated in the Comprehensive plan that are not specific to locations, activity or use, the Department recommends Council makes findings on compliance with the land use ordinance provisions that implement the relevant sections of the Comprehensive Plan. See ORS 197.175(2) and 197.015(11).</p>	

1
2 **Applicable Umatilla County Development Code Provisions**

3 UCDC §152.025 Zoning Permit

4
5 (A) *Prior to the construction, reconstruction, addition to or change of use of a structure, or*
6 *the change of use of a lot, or the installation or replacement of a mobile home on a lot, a*
7 *zoning permit shall be obtained from the County Planning Department. An amended*
8 *zoning permit must be obtained when changes to an approved zoning permit occur.*
9 *Changes include, but are not limited to, the size of the proposed structure, relocation of*
10 *a structure or changes in the model year of a proposed manufactured home, etc.*
11

⁶⁹ WESAPDoc1-1 Proposed Order Agency Consultation SAG Umatilla County 2022-12-09.

1 As presented in the subsections below, the conditional use criteria for the proposed solar
2 facility components require that conditional use and zoning permits, per tax lot, be obtained
3 from Umatilla County.

4
5 To ensure that zoning permits are obtained prior to construction of all applicable structures the
6 Department recommends Council impose the following condition:

7
8 **Recommended Land Use Condition 1 (PRE):** Prior to construction of facility structures,
9 as applicable, subject to the Council’s jurisdiction and authority pursuant to ORS
10 469.504(1), the certificate holder shall obtain conditional use permits and zoning
11 permits issued by the Planning Director, per affected tax lot, from Umatilla County
12 Planning Department; copies of permits shall be provided to the Department.

13
14 Based on compliance with the above-recommended condition, the Department recommends
15 Council find that the applicant will comply with UCDC §152.025 requirements.

16
17 UCDC §152.060 Conditional Uses Permitted

18
19 *In an EFU zone the following uses may be permitted conditionally via administrative review*
20 *(§ 152.769), subject to the requirements of this section, the applicable criteria in § 152.061,*
21 *§§ 152.610 through 152.615, 152.617 and §§ 152.545 through 152.562. A zoning permit is*
22 *required following the approval of a conditional use pursuant to §152.025. Existing uses*
23 *classified as conditional uses and listed in this section may be expanded subject to*
24 *administrative review and subject to the requirements listed in OAR 660, Division 033.*

25 ***

26 *(FF) Photovoltaic solar power generation facility as provided in OAR 660-033-0130(38).*

27
28 UCDC §152.060 establishes conditional use requirements for permissible land used within EFU-
29 zoned land, including land uses meeting the definition of a “photovoltaic solar power
30 generation facility.” This proposed land use is subject to the requirements of UCDC §152.060,
31 UCDC §152.061 and §152.615. A conditional use permit and zoning permits, per taxlot, are also
32 required – local permits are addressed above and will be required per recommended Land Use
33 Condition 1.

34
35 Under UCDC §152.060(FF), a solar PV facility may be permitted conditionally in the EFU zone as
36 provided in OAR 660-033-0130(38). The evaluation of compliance with OAR 660-033-0130(38) is
37 presented in Section IV.E.2 *Directly Applicable State Laws and Statutes*.

38
39 UCDC §152.061 Conditional Uses Permitted

40
41 *The following limitations shall apply to all conditional uses in an EFU zone. Uses may be*
42 *approved only where such uses:*

- 1 (A) Will not force a significant change in accepted farm or forest practices on surrounding
2 lands devoted to farm or forest use; and
3 (B) Will not significantly increase the cost of accepted farm or forest practices on lands
4 devoted to farm or forest use.
5

6 There are no forest lands within the 0.5-mile land use analysis area, as shown in Figure 4, *Land*
7 *Use Analysis Area, Proposed Facility Site Boundary and Zoning/Comprehensive Plan*
8 *Designations*. Surrounding lands on the north, west and southern perimeters of the proposed
9 site boundary are used for irrigated agriculture. In the area of the proposed facility, farmed
10 crops include wheat, corn, potatoes and other row crops and the harvest season can extend 5
11 months.⁷⁰
12

13 There are four property owners within the analysis area. Accepted farm practices on these
14 properties are summarized below.
15

16 Windblown Ranch - owns the tax lots immediately west, east, and northeast of the site
17 boundary.
18

- 19 • Windblown Ranch leases its land to Castle Rock Farming LLC. The tax lot west of the
20 site boundary has been used for cultivation of wheat, grass seed, alfalfa, and most
21 recently for potatoes.
- 22 • The tax lots east and northeast of the site boundary ~~has~~ have historically had no
23 irrigation and ~~was~~ were uncultivated. However, recently these tax lots were added into
24 the East Improvement Irrigation District boundary and have been planted
25 with peas, corn, and potatoes.⁷¹
26

27 Walchli Farms - owns the tax lots immediately north of the eastern half of the site
28 boundary.
29

- 30 • Walchli Farms rotates their crops as most farmers in this area and are known to
31 cultivate wheat, potatoes, corn, and watermelons on ~~their various properties in this~~
32 area irrigated parcels in the analysis area.⁷²
33

34 Stanfield Hutterian Brethren - owns the tax lots immediately north and northwest of
35 the western half of the site boundary.
36

⁷⁰ WESAPDoc6-7 pASC Reviewing Agency Comment SAG Umatilla County Shafer 2022-02-09, p.1.

⁷¹ In 2018, water rights were secured for Mr. Prior's lands (4N29160000100 and 4N29C00000100) from a newly formed East Improvement District (EID). Mr. Prior's Tract 1 was excluded from the EID boundary because it is site constrained by the existing Bonneville Power Administration and PacifiCorp transmission lines and located farther from the existing EID irrigation infrastructure than his other parcels.

⁷² WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Attachment K-9.

- Stanfield Hutterian Brethren rotates their crops as most farmers in this area and are known to cultivate wheat, potatoes, and corn on irrigated parcels in the analysis area.⁷³

Windy River - owns the tax lot immediately south of the site boundary

- Windy River leases its land to Castle Rock Farming LLC. They are known to cultivate potatoes, wheat, corn, and grass seed on this irrigated tax lot.

Potential impacts from proposed facility construction to the above-referenced farm practices on surrounding lands include: construction related traffic congestion; local road damage due to heavy construction-related vehicular traffic; noxious weed infestation; wildfire risk; and, offsite erosion and dust. Potential impacts from proposed facility operations to the above-referenced farm practices on surrounding lands include: noxious weed infestation; and, offsite erosion and dust.

The Department recommends Council impose numerous conditions to address these potential impacts:

- Soil Protection Conditions 1, 2 and 3 (development and implementation of an erosion and sediment control plan)
- Land Use Conditions 7 and 8 (phased grading plan and onsite erosion materials)
- ~~Land Use Condition 5 (recording of "covenant not to sue")~~
- Land Use Condition 7 (landowner consultation on construction schedule and harvest season, and demonstration of adjustment of heavy traffic congestion during peak harvest season)
- Land Use Conditions 9, 10 and 11 (pre, during and post-construction noxious weed control plan)
- Public Services Condition 1 and 2 (finalization and implementation of a Traffic Management Plan, and secured road use agreement with county)
- Wildfire Prevention and Risk Mitigation Condition 1 and 2 (finalization and implementation of Wildfire Mitigation Plans during construction and operation)

Based on compliance with the above-recommended conditions, the Department recommends Council find that the proposed facility would comply with the requirements of UCDC 152.061(A) and (B) and would not significantly impact accepted farm practices, or the cost thereof, on surrounding properties used for agricultural purposes.

UCDC §152.063 Development Standards

In the EFU zone, the following dimensional and development standards shall apply:

⁷³ Id.

- 1 (A) *Minimum parcel frontage. A parcel shall have a minimum street or road frontage*
2 *of 30 feet*
- 3 (B) *Front yard setbacks. All buildings shall be set back from front property lines and*
4 *side or rear property lines adjoining county roads, public roads, state highways,*
5 *or public or private access easements as follows:*
6 (1) *At least 30 feet from the property line or easement boundary; or*
7 (2) *At least 60 feet from the center line of the road, highway, or easement,*
8 *whichever is greater.*
- 9 (C) *Side and rear yard setbacks. Except as provided in division (B) above, the*
10 *following standards shall apply for side and rear yard setbacks:*
11 (1) *The minimum yard setback for farm or non-farm dwellings shall be 20 feet.*
12 (2) *The minimum yard setback for accessory buildings or structures, for both*
13 *farm and non-farm uses, shall be five feet, except as otherwise provided in*
14 *applicable conditions of approval, or as constrained by division (D) below.*
15 (3) *Special minimum yard setbacks may be established for an approved*
16 *conditional use to protect the public health, safety and welfare and to*
17 *mitigate possible adverse impacts to adjacent land uses*
- 18 (D) *Distance maintained from aggregate mining operations. A dwelling shall not be*
19 *located within 500 feet of an existing aggregate mining operation unless the*
20 *owner of the property of the proposed dwelling:*
21 ******
- 22 (E) *Stream setback. To permit better light, air, vision, stream pollution control, to*
23 *protect fish and wildlife areas, and to preserve the natural scenic amenities and*
24 *vistas along the streams, lakes, and wetlands, and to prevent construction in*
25 *flood prone areas along streams not mapped as part of the National Flood*
26 *Insurance Program, the following setbacks shall apply:*
27 (1) *All sewage disposal installations such as septic tanks and drainfields shall be*
28 *set back from the mean water line or mark along all streams, lakes or*
29 *wetlands a minimum of 100 feet, measured at right angles to the high water*
30 *line or mark. In those cases, where practical difficulties preclude the location*
31 *of the facilities at a distance of 100 feet, and the DEQ sanitarian finds that a*
32 *chosen location will not endanger health, the Planning Director may permit*
33 *the location of these facilities closer to the stream, lake, or wetland, but in no*
34 *case closer than 50 feet.*
35 (2) *All structures, buildings or similar permanent fixtures shall be set back from*
36 *the high water line along all streams, lakes or wetlands a minimum of 100*
37 *feet measured at right angles to the high water line or mark, except that this*
38 *setback can be reduced to 20 feet if all of the following criteria are met:*
39 ******
- 40 (F) *Other development standards. All development shall be subject to the regulations*
41 *contained in §§ 152.010 through 152.017, §§ 152.545 through 152.562, and to*
42 *the exceptions standards of §§ 152.570 through 152.577, including but not*
43 *limited to: vision clearance, signs, off street parking, access, fences, wetland*
44 *drainage, and maintenance, removal and replacement of riparian vegetation.*
45 *(Ord. 2005-02, passed 1-5-05)*
46

1 Two county roads adjacent to the proposed facility site, S. Edwards Road and Canal Road, are
2 considered “front yards”. Therefore, facility structures, not including the perimeter fence,⁷⁴
3 shall be setback 60 feet from the centerline of the road or 30 feet to the property line,
4 whichever is greater in order comply with UCDC §152.063(B) front yard setbacks.

5
6 Facility structures shall be setback a minimum of 5-feet from property boundaries on the
7 northern and southern sides of the site boundary in order comply with UCDC §152.063(C) side
8 and rear yard setbacks.

9
10 The applicant has not proposed any aggregate mining and has demonstrated that there are no
11 streams or wetlands within the site boundary.⁷⁵ Therefore, the development standards under
12 UCDC §152.063(D) and (E) do not apply. The applicable development standards referenced in
13 UCDC §152.063(F) are evaluated separately in this section.

14
15 To ensure that the final facility layout and design complies with the applicable UCDC §152.063
16 Development Standards, the Department recommends Council impose the following
17 conditions:

18
19 **Recommended Land Use Condition 2 (PRE):** Prior to construction of the facility, facility
20 component or phase, as applicable, the certificate holder shall submit to the
21 Department and Umatilla County a site plan that adheres to the following development
22 standards:

- 23 a. For the property line parallel to S. Edwards Road and Canal Road, facility structures
24 shall be set back 60 feet from the centerline of the road or 30 feet to the property
25 line, whichever is greater. This setback does not apply to the perimeter fence.
26 b. On the north and south sides of the site boundary, facility structures shall be setback
27 a minimum of 5 feet from the property line. This setback does not apply to
28 underground collector lines or internal access roads.
29 c. On the interior boundary between the two adjacent properties within the site
30 boundary, facility structures shall be set back a minimum of 5 feet from the property
31 line. This setback does not apply to underground collector lines or internal access
32 roads.

33
34 Based on compliance with the above-recommended condition, the Department recommends
35 Council find that the applicant will comply with the applicable UCDC §152.063 Development
36 Standards.

⁷⁴ On March 13, 2022, through email correspondence to the applicant’s consultant (Tetra Tech, Leslie McLain), Umatilla County planner, Carol Johnson confirmed that fencing is not required to meet a property line or boundary setback.

⁷⁵ WESAPDoc3-10 ASC Exhibit J Wetlands 2022-09-28. Section 4.0 states, “There are no WOS within the site boundary..,” and from an Oregon Department of State Lands (DSL) response letter for an Offsite Determination, DSL concurs that, “Based on available offsite information and additional information provided by the applicant, it is unlikely that jurisdictional wetlands or waterways are present on the property.” WESAPDoc6-10 pASC Reviewing Agency Comment Offsite Determination No Wetlands_DSL_Ryan 2022-07-28.

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UCDC §152.010 Access to Buildings; Private Driveways and Easements

(A) Every building hereafter erected or moved shall be on a lot that abuts a public street or a recorded easement. All structures shall be so located on lots as to provide safe and convenient access for servicing, fire protection, and required off-street parking. In commercial and industrial zones, access points shall be minimized. To accomplish this, access shall be limited to one every 200 feet and shall be reviewed during the design review stage or the conditional use hearing. If necessary to accomplish this, driveways may be shared between two lots.

(B) Private driveways and easements that enter onto a public or county road or state or federal highway shall be constructed of at least similar if not the same material as the public or county road or state or federal highway to protect the edge of the road from rapid deterioration. The improvements shall extend at least 25 feet back from the edge of the existing travel lane surface. (Ord. 83-4, passed 5-9-83)

The proposed facility includes a driveway that would provide access to the site from S. Edwards Road. UCDC §152.010(B) requires that the driveway be constructed with the same, or similar, material as S. Edwards Road and that the driveway extend at least 25 feet back from the edge of the existing travel lane surface.

Recommended Land Use Condition 3 (PRE): Prior to submission of a zoning permit application to Umatilla County for the driveway off of S. Edwards Road, the certificate holder shall submit to Umatilla County, and the Department, the final design of the driveway in compliance with the following:

- a. Construction materials shall be similar, or the same, as S. Edwards Road.
- b. Driveway shall extend at least 25 feet back from the edge of the existing travel lane surface of S. Edwards Road.
- c. Driveway shall include a minimum 10 foot vision clearance area (triangular area on the lot at the intersection of driveway and S. Edwards Road).

Based on compliance with the above-recommended condition ((a) and (b)), the Department recommends Council find that the applicant will comply with the applicable UCDC §152.010(D) private driveway requirements. See also recommended Public Services Condition 1 for additional requirements related to the certificate holder’s obligation to obtain directly or through a third-party applicable road and access permits from ODOT and Umatilla County Public Works Department.

UCDC §152.011 Vision Clearance

Vision clearance areas shall be provided with the following distance establishing the size of the vision clearance area:

(A) In an Agricultural or Residential Zone, the minimum distance shall be 30 feet or, at intersections including an alley, 10 feet;

1 (B) In all other zones the minimum distance shall be 15 feet or, at intersections including an
2 alley, 10 feet, except when the angle of intersection between streets is less than 30° the
3 distance shall be 25 feet;

4 (C) The vision clearance area shall not contain any planting, wall, structure, or obstruction of
5 any kind exceeding two and one-half feet in height measured from the grade of the
6 street centerline. (Ord. 83-4, passed 5-9-83)
7

8 UCDC §152.011(A) establishes minimum vision clearance distances of 10 feet, applicable to the
9 triangular area on the lot of the proposed facility driveway and S. Edwards Road. The
10 Department recommends Council impose Land Use Condition 3(c) to ensure the final facility
11 design adheres to the vision clearance requirements. Based on compliance with recommended
12 Land Use Condition 3(c), the Department recommends Council find that the applicant will
13 comply with the applicable UCDC §152.011(A) vision clearance requirements.
14

15 UCDC §152.015 Fences

16
17 *Fences are allowed in any zone and do not require a zoning permit for construction*
18 *unless located in a Special Flood Hazard Area. Fences located in a Special Flood*
19 *Hazard Area require an approved Floodplain Development Permit and Zoning Permit.*
20 *Fences must meet vision clearance requirements and zoning height limitation for structures.*
21 *Fences shall meet all Oregon Uniform Building Code requirements. (Ord.*
22 *83-4, passed 5-9-83; Ord. 2010-05, passed 8-3-10; Ord. 2019-03, passed 4-3-2019)*
23

24 UCDC §152.015 establishes that fencing, when not located in Special Flood Hazard Area, must
25 meet vision clearance requirements, zoning height limitations and Oregon Uniform Building
26 Code requirements. The proposed facility will include approximately 3 miles (15,400 linear feet)
27 of 6 to 10-foot chain-link perimeter fencing. There are no structure or height restrictions
28 established in UCDC within EFU zoned land. Therefore, the applicable requirements include
29 vision clearance and Oregon Uniform Building Code. The Department recommends Council
30 impose the following condition to comply with UCDC §152.015.
31

32 **Recommended Land Use Condition 4 (PRE):** Prior to submission of a zoning permit
33 application for the facility, facility component or phase, the certificate holder shall
34 submit to Umatilla County, and the Department, the final site plan of the facility
35 demonstrating that:

- 36 a. Perimeter fence will include a minimum 10 foot vision clearance area (triangular
37 area on the lot to any offsite roadway intersections).
38 b. Perimeter fence complies with Oregon Uniform Building Code requirements.
39

40 Based on compliance with recommended Land Use Condition 4, the Department recommends
41 Council find that the applicant will comply with the applicable UCDC §152.015 fencing
42 requirements.
43

44 ~~UCDC §152.562 Off-Street Parking and Loading Requirements~~

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- ~~(A) Should the owner or occupant of a lot or building change the use to which the lot or building is put, thereby increasing off-street parking or loading requirements, it shall be a violation of this chapter to begin such altered use until the required increase in off-street parking or loading is provided;~~
- ~~(B) Requirements for types of buildings and uses not specifically listed herein shall be determined by the Planning Commission or Hearings Officer, based upon the requirements of comparable uses listed;~~
- ~~(C) In the event several uses occupy a single structure or parcel of land, the total requirements for off-street parking shall be the sum of the requirements of the several uses computed separately;~~
- ~~(D) Owner of two or more uses, structures or parcels of land may agree to utilize jointly the same parking and loading spaces when the hours of operation do not overlap, provided that satisfactory legal evidence is presented to the Planning Director in the form of deeds, leases, or contracts to establish the joint use;~~
- ~~(E) Off-street parking spaces for dwellings shall be located on the same lot with the dwelling. Other required parking spaces shall be located no farther than 500 feet from the building or use they are required to serve, measured in a straight line from the building;~~
- ~~(F) Required parking spaces shall be available for the parking of operable passenger automobiles of residents, customers, patrons and employees only, and shall not be used for storage of vehicles or materials or for the parking of trucks used in conducting the business or use;~~
- ~~(G) Unless otherwise provided, required parking and loading spaces shall not be located in a required yard;~~
- ~~(H) Plans shall be submitted as provided in § 152.767 of this chapter;~~
- ~~(I) Design requirements for parking lots:
 - ~~(1) Areas used for standing and maneuvering of vehicles shall have paved surfaces maintained adequately for all weather use and so drained as to avoid flow of water across public sidewalks;~~
 - ~~(2) Except for parking to serve residential use, parking and loading areas adjacent to residential use shall be designed to minimize disturbance of residents by the erection between the uses of a sight obscuring fence of not less than five feet in height except where vision clearance is required;~~
 - ~~(3) Parking spaces along the outer boundaries of a parking lot shall be contained by a curb at least four inches high and set back a minimum of four and one-half feet from the property line, or by a bumper rail;~~
 - ~~(4) Artificial lighting which may be provided shall not create or reflect glare in a residential zone or on any adjacent dwelling;~~
 - ~~(5) Service drives to off-street parking areas of four or more spaces shall be clearly and permanently marked and defined through use of rails, fences, walls, or other barriers or markers on frontage not occupied by service drives;~~~~

1 ~~(6) Service drives shall have a minimum vision clearance area bounded by the driveway~~
2 ~~centerline, the street right-of-way line, and a straight line joining said lines 20 feet~~
3 ~~from their intersection.~~

4 ~~(7) Except for parking to serve a single family residential use, parking and loading areas~~
5 ~~must meet State Building Code Accessible Parking requirements. (Ord. 83-4, passed~~
6 ~~5-9-83; Ord. 2016-02, passed 3-16-16;)~~

7
8 ~~The proposed O&M enclosure will include parking spaces, accessed via the new access road~~
9 ~~proposed off of S. Edwards Road. In recommended Land Use Condition 2, the certificate holder~~
10 ~~will be required to demonstrate that the site plan complies with UCDC setback requirements.~~
11 ~~The Department recommends Land Use Condition 2 also require that the certificate holder~~
12 ~~demonstrate that the final facility site plan complies with applicable parking lot design ((1)(1),~~
13 ~~(3)) requirements referenced above, as follows:~~

14
15 ~~**Recommended Land Use Condition 2 (PRE):** Prior to construction of the facility, facility~~
16 ~~component or phase, as applicable, the certificate holder shall submit to the Department~~
17 ~~and Umatilla County a site plan that adheres to the following development standards:~~

18 ~~...~~

19 ~~d. Parking design at the O&M enclosure shall include paved surfaces, minimum of four~~
20 ~~inch curb height; and drainage infrastructure.~~

21
22 ~~Based on compliance with recommended Land Use Condition 2(d), the Department~~
23 ~~recommends Council find that the applicant will comply with the applicable UCDC §152.562~~
24 ~~parking requirements.~~

25
26 UCDC §152.615 Additional Conditional Use Permit Restrictions

27
28 *In addition to the requirements and criteria listed in this subchapter, the Hearings Officer,*
29 *Planning Director or the appropriate planning authority may impose the following*
30 *conditions upon a finding that circumstances warrant such additional restrictions: [list of*
31 *conditions omitted for brevity]*

32
33 The Council has the authority to impose additional conditions under UCDC 152.615. The
34 County, however, has not recommended any additional conditions under this provision, and the
35 Department does not recommend the Council impose any additional conditions under this
36 provision.

37
38 IV.E.2 Directly Applicable State Laws and Statutes

39
40 The proposed facility must demonstrate compliance with the requirements under LCDC OAR
41 660-033-0130(38).

42
43 The proposed site is located within land classified as high-value farmland per ORS 195.300(10)
44 (f) because the property is located within the Columbia Valley American Viticulture Area

1 designation and criteria. The proposed facility would use, occupy, or cover 261 acres of high-
2 value farmland.⁷⁶ The proposed facility would not be located on any high value farmland soils as
3 defined under OAR 660-033-0020(8)(b)-(e).

4
5 *OAR 660-033-0130 – Minimum Standards Applicable to the Schedule of Permitted and*
6 *Conditional Uses*

7
8 *(38) A proposal to site a photovoltaic solar power generation facility shall be subject to the*
9 *following definitions and provisions:*

10
11 ****77*

12 *(g) For high-value farmland described at ORS 195.300(10), a photovoltaic solar power*
13 *generation facility shall not use, occupy, or cover more than 12 acres unless:*

14 *(A) The provisions of paragraph (h)(H) are satisfied; or*

15 *(B) A county adopts, and an applicant satisfies, land use provisions authorizing*
16 *projects subject to a dual-use development plan. Land use provisions adopted by*
17 *a county pursuant to this paragraph may not allow a project in excess of 20*
18 *acres. Land use provisions adopted by the county must require sufficient*
19 *assurances that the farm use element of the dual-use development plan is*
20 *established and maintained so long as the photovoltaic solar power generation*
21 *facility is operational or components of the facility remain on site. The provisions*
22 *of this subsection are repealed on January 1, 2022.*

23
24 OAR 660-033-0130(38)(g) restricts a photovoltaic solar power generation facility from using,
25 occupying, or covering more than 12 acres of high value farmland unless the provisions of OAR
26 660-033-0130(38)(h)(H) are satisfied or the County adopts (and the applicant satisfies) land use
27 provisions authorizing projects subject to a dual-use development plan.⁷⁸ The applicant
28 acknowledges, and the Department agrees, that the proposed solar facility components would
29 not meet either one of these exemptions. As provided under OAR 660-033-0130(38)(k), a solar
30 PV facility that exceeds the threshold established by OAR 660-033-0130(38)(g) requires a goal
31 exception.

32
33 OAR 660-033-0130(38)(h)(A) – (D) requires a demonstration that the proposed facility
34 components would not create unnecessary negative impacts to agricultural operations, soil
35 erosion or loss, soil compaction, or the unabated introduction or spread of noxious weeds.

36
37 *(A) The proposed photovoltaic solar power generation facility will not create*
38 *unnecessary negative impacts on agricultural operations conducted on any*
39 *portion of the subject property not occupied by project components. Negative*

⁷⁶ WESAPDoc3-11 ASC Exhibit K Land Use 2022-10-22. Table K-2.

⁷⁷ OAR 660-033-0130(38)(a)-(e) contain definitions. The provisions begin at (g).

⁷⁸ Land use provisions adopted by a county pursuant to this paragraph may not allow a project in excess of 20 acres. OAR 660-033-0130(38)(g)(B).

1 *impacts could include, but are not limited to, the unnecessary construction of*
2 *roads dividing a field or multiple fields in such a way that creates small or*
3 *isolated pieces of property that are more difficult to farm, and placing*
4 *photovoltaic solar power generation facility project components on lands in a*
5 *manner that could disrupt common and accepted farming practices;*
6

7 The proposed facility site is located on lands that are not currently, nor in the last 50 years,
8 been used for agricultural operations. Therefore, the Department recommends Council find
9 that construction and operation of the proposed facility will not create unnecessary negative
10 impacts on agricultural operations conducted on any portion of the subject property and
11 therefore would satisfy the requirements under OAR 660-033-0130(38)(h)(A).
12

13 *(B) The presence of a photovoltaic solar power generation facility will not result in*
14 *unnecessary soil erosion or loss that could limit agricultural productivity on the*
15 *subject property. This provision may be satisfied by the submittal and county*
16 *approval of a soil and erosion control plan prepared by an adequately qualified*
17 *individual, showing how unnecessary soil erosion will be avoided or remedied.*
18 *The approved plan shall be attached to the decision as a condition of approval;*
19

20 This provision is consistent with Council’s Soil Protection standard, where the Department
21 recommends Council impose a condition requiring that, during facility construction, the
22 applicant be required to adhere to the requirements of a Department approved Erosion and
23 Sediment Control Plan ~~during construction~~ (see recommended Soil Protection Conditions 1 and
24 2) and implementation of a Noxious Weed Plan, prior to and during construction and operation
25 (see recommended Land Use Conditions 9, 10 and 11). This plan includes best management
26 practices to be implemented during construction and operation designed to reduce and
27 minimize unnecessary soil erosion or loss that could limit agricultural productivity within the
28 proposed facility site and on adjacent EFU zoned land.
29

30 Based upon compliance with the recommended conditions, the Department recommends
31 Council conclude that the proposed facility will satisfy the requirements under OAR 660-033-
32 0130(38)(h)(B).
33

34 *(C) Construction or maintenance activities will not result in unnecessary soil*
35 *compaction that reduces the productivity of soil for crop production. This*
36 *provision may be satisfied by the submittal and county approval of a plan*
37 *prepared by an adequately qualified individual, showing how unnecessary soil*
38 *compaction will be avoided or remedied in a timely manner through deep soil*
39 *decompaction or other appropriate practices. The approved plan shall be*
40 *attached to the decision as a condition of approval;*
41

42 This provision is consistent with Council’s Soil Protection standard, where the Department
43 recommends Council impose a condition requiring that the applicant minimize compaction

1 through scarification and ~~revegetation~~ reseeding following site disturbance (see recommended
2 Soil Protection Conditions 1, 2 and 3 and associated Attachment I-1 of this order).

3
4 Based upon compliance with the recommended conditions, the Department recommends
5 Council conclude that the proposed facility will satisfy the requirements under OAR 660-033-
6 0130(38)(h)(C).

7
8 *(D) Construction or maintenance activities will not result in the unabated*
9 *introduction or spread of noxious weeds and other undesirable weed species. This*
10 *provision may be satisfied by the submittal and county approval of a weed control*
11 *plan prepared by an adequately qualified individual that includes a long-term*
12 *maintenance agreement. The approved plan shall be attached to the decision as a*
13 *condition of approval;*

14
15 Noxious weed control is required to ensure the impacts to adjacent agricultural lands are
16 minimized and that revegetation and site stabilization within areas of disturbance are achieved.

17
18 Recommended Land Use Conditions 9, 10 and 11 requires that the applicant implement a
19 Noxious Weed Plan, which includes requirements for noxious weed control, prior to and during
20 construction and operation. Elements of the noxious weed control requirements include
21 preconstruction identification and treatment of infestation locations; flagging, avoiding and
22 monitoring of infestation areas during construction; and long-term monitoring and treatment
23 during operations. All of these requirements would be reported to the Department and
24 Umatilla County Weed Department and allow for the Department to require additional
25 treatment and monitoring given reported results. Based upon compliance with the condition,
26 the Department recommends Council conclude that the proposed facility would not result in
27 unabated introduction or spread of noxious weeds and other undesirable weed species and
28 would satisfy the requirements under OAR 660-033-0130(38)(h)(D).

29
30 *(E) Except for electrical cable collection systems connecting the photovoltaic solar*
31 *generation facility to a transmission line, the project is not located on those high-*
32 *value farmland soils listed in OAR 660-033-0020(8)(a);*

33
34 As defined in OAR 660-033-0020(8)(a), high value farmland means land in a tract composed
35 predominately of soils that are either irrigated and classified prime, unique, Class I or II soils; or,
36 not irrigated and classified prime, unique, Class I or Class II soils.

37
38 As shown in ASC Exhibit K, Figure K-8, the proposed site boundary is predominately not located
39 on Class I or II soils and is not located within an irrigation district. -There are approximately 4
40 acres of Class II soils within the site boundary that will be required to be avoided under
41 Recommended Land Use Condition 12. Because the subject tracts are not irrigated and are not
42 located within an irrigation district, it is not considered irrigated farmland and is therefore not
43 prime farmland.

1 The Department recommends the Council find that the proposed facility will not be located on
2 high-value farmland soils listed in OAR 660-033-0020(8)(a), consistent with OAR 660-033-
3 0130(38)(h)(E).

4
5 *(F) The project is not located on those high-value farmland soils listed in OAR 660-
6 033-0020(8)(b)-(e) or arable soils unless it can be demonstrated that:*

7 *(i) Non high-value farmland soils are not available on the subject tract;*

8 *(ii) Siting the project on non high-value farmland soils present on the subject
9 tract would significantly reduce the project’s ability to operate successfully; or*

10 *(iii) The proposed site is better suited to allow continuation of an existing
11 commercial farm or ranching operation on the subject tract than other possible
12 sites also located on the subject tract, including those comprised of non high
13 value farmland soils; and*

14
15 The proposed site boundary would not be located on high-value farmland soils listed in OAR
16 660-033-0020(8)(b)-(e), which include certain high-value farmland tracts⁷⁹ outside the
17 Willamette Valley growing specified perennials, and certain soils located in other areas that are
18 far from the site boundary (specifically, within the Willamette Valley, west of the Coast Range,
19 and west of U.S. Highway 101). The proposed site boundary would, however, be located on
20 arable soils (Class IV), so the applicant must demonstrate that the proposed facility can meet
21 one of the factors listed in (i) through (iii).

22
23 Siting the proposed facility on non-arable soils (Class VII) to avoid arable soils would
24 significantly reduce the acreage available to develop the project, resulting in less than ~~70-88~~
25 available acres that are laid-out in a long narrow pattern within the subject tracts.⁸⁰ Because the
26 subject tracts are limited to the site boundary and do not extend or offer more area than is
27 under review, the Department recommends Council find that the proposed facility site satisfies
28 OAR 660-033-0130(38)(f)(ii).

29
30 *(G) A study area consisting of lands zoned for exclusive farm use located within one
31 mile measured from the center of the proposed project shall be established and:*

32 *(i) If fewer than 48 acres of photovoltaic solar power generation facilities have
33 been constructed or received land use approvals and obtained building permits
34 within the study area, no further action is necessary.*

35 *(ii) When at least 48 acres of photovoltaic solar power generation facilities have
36 been constructed or received land use approvals and obtained building permits,
37 either as a single project or as multiple facilities within the study area, the local
38 government or its designate must find that the photovoltaic solar power
39 generation facility will not materially alter the stability of the overall land use*

⁷⁹ As defined in OAR 660-033-0020, “tract” means one or more contiguous lots or parcels under the same ownership. The Department highlights that because OAR 660-033-0130(38)(g)(A) requires an evaluation of soil conditions on the “subject tract,” that such an evaluation may require the review of areas outside of the proposed site boundary area.

⁸⁰ [WESAPDoc3-11 ASC Exhibit K Land Use 2022-10-22, Table K-1 and Section 7.1.2.](#)

1 *pattern of the area. The stability of the land use pattern will be materially*
2 *altered if the overall effect of existing and potential photovoltaic solar power*
3 *generation facilities will make it more difficult for the existing farms and*
4 *ranches in the area to continue operation due to diminished opportunities to*
5 *expand, purchase or lease farmland, acquire water rights, or diminish the*
6 *number of tracts or acreage in farm use in a manner that will destabilize the*
7 *overall character of the study area.*

8
9 OAR 660-033-0130(38)(h)(G) requires an evaluation of photovoltaic solar power generation
10 *facility development within 1-mile of the proposed site boundary. The applicant asserts that no*
11 *photovoltaic solar power generation facilities have been constructed or received land*
12 *use approvals and obtained building permits within the 1-mile study area.⁸¹ ASC Exhibit C Figure*
13 *C-3 shows operating solar facilities within 10 miles of the site boundary, all of which are farther*
14 *than 1 mile away. Based on a review of aerial imagery, the Department confirms that there are*
15 *fewer than 48 acres of other solar PV facilities within 1-mile of the proposed facility. The*
16 *Department therefore recommends that the Council find that no further action is necessary,*
17 *consistent with OAR 660-033-0130(38)(h)(G)(i).*

18
19 *(H) A photovoltaic solar power generation facility may be sited on more than 12 acres of*
20 *high-value farmland described in ORS 195.300 (Definitions for ORS 195.300 to*
21 *195.336)(10)(f)(C) without taking an exception pursuant to ORS 197.732 (Goal*
22 *exceptions) and OAR chapter 660, division 4, provided the land:*

23 *(i) Is not located within the boundaries of an irrigation district;*

24 *(ii) Is not at the time of the facility's establishment, and was not at any time during*
25 *the 20 years immediately preceding the facility's establishment, the place of use*
26 *of a water right permit, certificate, decree, transfer order or ground water*
27 *registration authorizing the use of water for the purpose of irrigation;*

28 *(iii) Is located within the service area of an electric utility described in ORS 469A.052*
29 *(Large utility renewable portfolio standard)(2);*

30 *(iv) Does not exceed the acreage the electric utility reasonably anticipates to be*
31 *necessary to achieve the applicable renewable portfolio standard described*
32 *in ORS 469A.052 (Large utility renewable portfolio standard)(3); and*

33 *(v) Does not qualify as high-value farmland under any other provision of law; or*
34

35 The proposed facility does not satisfy OAR 660-033-0130(38)(h)(H)(iii) and (iv) and therefore
36 does not qualify for the acreage exception.

37
38 *(i) For arable lands, a photovoltaic solar power generation facility shall not use, occupy, or*
39 *cover more than 20 acres. The governing body or its designate must find that the*

⁸¹ WESAPDoc3-11 ASC Exhibit K Land Use 2022-09-28, p.35.

1 following criteria are satisfied in order to approve a photovoltaic solar power generation
2 facility on arable land.

3
4 (A) Except for electrical cable collection systems connecting the photovoltaic solar
5 generation facility to a transmission line, the project is not located on those high-
6 value farmland soils listed in OAR 660-033-0020 (Definitions)(8)(a);
7

8 As defined in OAR 660-033-0020(8)(a), high value farmland means land in a tract composed
9 predominately of soils that are either irrigated and classified prime, unique, Class I or II soils; or,
10 not irrigated and classified prime, unique, Class I or Class II soils.
11

12 As shown in ASC Exhibit K Figure K-8, the proposed site boundary is predominately not located
13 on Class I or II soils and is not located within an irrigation district. There are approximately 4
14 acres of Class II soils within the site boundary that will be required to be avoided, under
15 recommended Land Use Condition 12. Because the subject tracts are not irrigated and are not
16 located within an irrigation district, it is not considered irrigated farmland and is therefore not
17 prime farmland.
18

19 The Department recommends the Council find that the proposed facility will not be located on
20 high-value farmland soils listed in OAR 660-033-0020(8)(a), consistent with OAR 660-033-
21 0130(38)(i)(A).
22

23 (B) The project is not located on those high-value farmland soils listed in OAR 660-033-
24 0020 (Definitions)(8)(b)-(e) or arable soils unless it can be demonstrated that:
25

26 (i) Nonarable soils are not available on the subject tract;

27 (ii) Siting the project on nonarable soils present on the subject tract would
28 significantly reduce the project's ability to operate successfully; or

29 (iii) The proposed site is better suited to allow continuation of an existing commercial
30 farm or ranching operation on the subject tract than other possible sites also
31 located on the subject tract, including those comprised of nonarable soils;
32

33 The proposed site boundary would not be located on high-value farmland soils listed in OAR
34 660-033-0020(8)(b)-(e), which include certain high-value farmland tracts⁸² outside the
35 Willamette Valley growing specified perennials, and certain soils located in other areas that are
36 far from the site boundary (specifically, within the Willamette Valley, west of the Coast Range,
37 and west of U.S. Highway 101). The proposed site boundary would, however, be located on
38 arable soils (Class IV), so the applicant must demonstrate that the proposed facility can meet
39 one of the factors listed in (i) through (iii).
40

⁸² As defined in OAR 660-033-0020, "tract" means one or more contiguous lots or parcels under the same ownership. The Department highlights that because OAR 660-033-0130(38)(g)(A) requires an evaluation of soil conditions on the "subject tract," that such an evaluation may require the review of areas outside of the proposed site boundary area.

1 Siting the proposed facility on non-arable soils (Class VII) to avoid arable soils would
2 significantly reduce the acreage available to develop the project, resulting in less than ~~8870~~
3 available acres that are laid-out in a long narrow pattern within the subject tracts.⁸³ Because the
4 subject tracts are limited to the site boundary and do not extend or offer more area than is
5 under review, the Department recommends Council find that the proposed facility site satisfies
6 OAR 660-033-0130(38)(i)(B)(ii).

7
8 *(C) No more than 12 acres of the project will be sited on high-value farmland soils*
9 *described at ORS 195.300 (Definitions for ORS 195.300 to 195.336)(10));*

10
11 The proposed facility will be sited on more than 12 acres of high-value farmland as defined in
12 ORS 195.300(10)(f) because the property is located within the located within the Columbia
13 Valley American Viticulture Area designation and criteria. Therefore, the proposed facility
14 requires an exception to Statewide Planning Goal 3, as evaluated in Section IV.E.3 *Goal*
15 *Exception* of this order.

16
17 *(D) A study area consisting of lands zoned for exclusive farm use located within one mile*
18 *measured from the center of the proposed project shall be established and:*

19 *(i) If fewer than 80 acres of photovoltaic solar power generation facilities have been*
20 *constructed or received land use approvals and obtained building permits within*
21 *the study area, no further action is necessary.*

22 *(ii) When at least 80 acres of photovoltaic solar power generation facilities have*
23 *been constructed or received land use approvals and obtained building permits,*
24 *either as a single project or as multiple facilities within the study area, the local*
25 *government or its designate must find that the photovoltaic solar power*
26 *generation facility will not materially alter the stability of the overall land use*
27 *pattern of the area. The stability of the land use pattern will be materially altered*
28 *if the overall effect of existing and potential photovoltaic solar power generation*
29 *facilities will make it more difficult for the existing farms and ranches in the area*
30 *to continue operation due to diminished opportunities to expand, purchase or*
31 *lease farmland, acquire water rights, or diminish the number of tracts or acreage*
32 *in farm use in a manner that will destabilize the overall character of the study*
33 *area; and*

34
35 OAR 660-033-0130(38)(i)(D) requires an evaluation of photovoltaic solar power generation
36 facility development within 1-mile of the proposed site boundary. The applicant asserts that no
37 photovoltaic solar power generation facilities have been constructed or received land
38 use approvals and obtained building permits within the 1-mile study area.⁸⁴ ASC Exhibit C Figure
39 C-3 shows operating solar facilities within 10 miles of the site boundary, all of which are farther
40 than 1 mile away. Based on a review of aerial imagery, the Department confirms that there are
41 fewer than 48 acres of other solar PV facilities within 1-mile of the proposed facility. The

⁸³ [WESAPDoc3-11 ASC Exhibit K Land Use 2022-10-22, Table K-1 and Section 7.1.2.](#)

⁸⁴ WESAPDoc3-11 ASC Exhibit K Land Use 2022-09-28, p.35.

1 Department therefore recommends that the Council find that no further action is necessary,
2 consistent with OAR 660-033-0130(38)(h)(i)(D).

3
4 *(E) The requirements of OAR 660-033-0130 (Minimum Standards Applicable to the*
5 *Schedule of Permitted and Conditional Uses)(38)(h)(A), (B), (C) and (D) are satisfied*
6

7 As presented in the subsections above, the Department recommends Council find that the
8 proposed facility would comply with OAR 660-033-0130(38)(h)(A), (B) and (D). OAR 660-033-
9 0130(38)(h)(C) requires that proposed solar facility component use or occupy no more than 12
10 acres of high-value farmland described at ORS 195.300(10). Because the proposed facility
11 would be sited on more than 12 acres of high-value farmland described at ORS 195.300(10), the
12 applicant requests an exception to Statewide Planning Goal 3. The Department’s analysis of the
13 exception request is provided in Section IV.E.3. *Goal 3 Exception* of this order.

14
15 *(j) For nonarable lands, a photovoltaic solar power generation facility shall not use, occupy,*
16 *or cover more than 320 acres. The governing body or its designate must find that the*
17 *following criteria are satisfied in order to approve a photovoltaic solar power generation*
18 *facility on nonarable land:*

19
20 The proposed facility would use, occupy, or cover approximately 68 acres of nonarable lands,
21 far less than the 320-acre threshold established by OAR 660-033-0130(38)(j). The Department
22 recommends that the Council find that the proposed facility would comply with the 320
23 acreage threshold for nonarable lands pursuant to OAR 660-033-0130(38)(j).

24
25 *(A) Except for electrical cable collection systems connecting the photovoltaic solar*
26 *generation facility to a transmission line, the project is not located on those high-*
27 *value farmland soils listed in OAR 660-033-0020(8)(a);*
28

29 As defined in OAR 660-033-0020(8)(a), high value farmland means land in a tract composed
30 predominately of soils that are either irrigated and classified prime, unique, Class I or II soils; or,
31 not irrigated and classified prime, unique, Class I or Class II soils.

32
33 As shown in ASC Exhibit K Figure K-8, the proposed site boundary is predominately not located
34 on Class I or II soils and is not located within an irrigation district. There are approximately 4
35 acres of Class II soils within the site boundary that will be required to be avoided (see
36 recommended Land Use Condition 12). Because the subject tracts are not irrigated and are not
37 located within an irrigation district, it is not considered irrigated farmland and is therefore not
38 prime farmland.

39
40 The Department recommends the Council find that the proposed facility will not be located on
41 high-value farmland soils listed in OAR 660-033-0020(8)(a), consistent with OAR 660-033-
42 0130(38)(j)(A).
43

1 (B) *The project is not located on those high-value farmland soils listed in OAR 660-*
2 *033-0020(8)(b)-(e) or arable soils unless it can be demonstrated that:*

3
4 (i) *Siting the project on nonarable soils present on the subject tract would*
5 *significantly reduce the project’s ability to operate successfully; or*

6
7 (ii) *The proposed site is better suited to allow continuation of an existing*
8 *commercial farm or ranching operation on the subject tract as compared to*
9 *other possible sites also located on the subject tract, including sites that are*
10 *comprised of nonarable soils;*

11
12 The proposed site boundary would not be located on high-value farmland soils listed in OAR
13 660-033-0020(8)(b)-(e), which include certain high-value farmland tracts⁸⁵ outside the
14 Willamette Valley growing specified perennials, and certain soils located in other areas that are
15 far from the site boundary (specifically, within the Willamette Valley, west of the Coast Range,
16 and west of U.S. Highway 101). The proposed site boundary would, however, be located on
17 arable soils (Class IV), so the applicant must demonstrate that the proposed facility can meet
18 one of the factors listed in (i) or (ii)

19
20 Siting the proposed facility on non-arable soils (Class VII) to avoid arable soils would
21 significantly reduce the acreage available to develop the project, resulting in less than ~~8870~~
22 available acres that are laid-out in a long narrow pattern within the subject tracts.⁸⁶ Because the
23 subject tracts are limited to the site boundary and do not extend or offer more area than is
24 under review, the Department recommends Council find that the proposed facility site satisfies
25 OAR 660-033-0130(38)(j)(B)(i).

26
27 (C) *No more than 12 acres of the project will be sited on high-value farmland soils*
28 *described at ORS 195.300(10);*

29
30 The proposed facility will be sited on more than 12 acres of high-value farmland as defined in
31 ORS 195.300(10)(f) because the property is located within the located within the Columbia
32 Valley American Viticulture Area designation and criteria. Therefore, the proposed facility
33 requires an exception to Statewide Planning Goal 3, as evaluated in Section IV.E.3 *Goal*
34 *Exception* of this order.

35
36 (D) *No more than 20 acres of the project will be sited on arable soils;*
37

⁸⁵ As defined in OAR 660-033-0020, “tract” means one or more contiguous lots or parcels under the same ownership. The Department highlights that because OAR 660-033-0130(38)(g)(A) requires an evaluation of soil conditions on the “subject tract,” that such an evaluation may require the review of areas outside of the proposed site boundary area.

⁸⁶ [WESAPDoc3-11 ASC Exhibit K Land Use 2022-10-22, Table K-1 and Section 7.1.2.](#)

1 The proposed facility will be sited on more than 20 acres of arable soils as defined in OAR 660-
2 033-0130(38)(b). Therefore, the proposed facility requires an exception to Statewide Planning
3 Goal 3, as evaluated in Section IV.E.3 *Goal Exception* of this order.

4
5 *(E) The requirements of OAR 660-033-0130(38)(h)(D) are satisfied;*

6
7 As presented in the subsections above, the Department recommends Council find that the
8 proposed facility would comply with OAR 660-033-0130(38)(h)(D) (noxious weed control).

9
10 *(F) If a photovoltaic solar power generation facility is proposed to be developed on*
11 *lands that contain a Goal 5 resource protected under the county's*
12 *comprehensive plan, and the plan does not address conflicts between energy*
13 *facility development and the resource, the applicant and the county, together*
14 *with any state or federal agency responsible for protecting the resource or*
15 *habitat supporting the resource, will cooperatively develop a specific resource*
16 *management plan to mitigate potential development conflicts. If there is no*
17 *program present to protect the listed Goal 5 resource(s) present in the local*
18 *comprehensive plan or implementing ordinances and the applicant and the*
19 *appropriate resource management agency(ies) cannot successfully agree on a*
20 *cooperative resource management plan, the county is responsible for*
21 *determining appropriate mitigation measures; and*

22
23 Neither the applicant nor Umatilla County have identified Goal 5 resources within the site
24 boundary. Therefore, the Department recommends Council find that the proposed facility will
25 satisfy the requirements under OAR 660-033-0130(38)(j)(F)

26
27 *(G) If a proposed photovoltaic solar power generation facility is located on lands*
28 *where, after site specific consultation with an Oregon Department of Fish and*
29 *Wildlife biologist, it is determined that the potential exists for adverse effects to*
30 *state or federal special status species (threatened, endangered, candidate, or*
31 *sensitive) or habitat or to big game winter range or migration corridors, golden*
32 *eagle or prairie falcon nest sites or pigeon springs, the applicant shall conduct a*
33 *site-specific assessment of the subject property in consultation with all*
34 *appropriate state, federal, and tribal wildlife management agencies. A*
35 *professional biologist shall conduct the site-specific assessment by using*
36 *methodologies accepted by the appropriate wildlife management agency and*
37 *shall determine whether adverse effects to special status species or wildlife*
38 *habitats are anticipated. Based on the results of the biologist's report, the site*
39 *shall be designed to avoid adverse effects to state or federal special status*
40 *species or to wildlife habitats as described above. If the applicant's site-specific*
41 *assessment shows that adverse effects cannot be avoided, the applicant and the*
42 *appropriate wildlife management agency will cooperatively develop an*
43 *agreement for project-specific mitigation to offset the potential adverse effects*
44 *of the facility. Where the applicant and the resource management agency*

1 *cannot agree on what mitigation will be carried out, the county is responsible*
2 *for determining appropriate mitigation, if any, required for the facility.*

3
4 ASC Exhibits P and Q and Sections IV.H., *Fish and Wildlife Habitat* and IV.I, *Threatened and*
5 *Endangered Species* of this order provide information relevant to this criterion. The applicant
6 consulted with ODFW’s district biologist and ODOE on the appropriate field survey protocols
7 and performed a site-specific assessment of potential adverse impacts to special status species
8 and fish and wildlife habitat. As presented in Section IV.H., *Fish and Wildlife Habitat* and IV.I,
9 *Threatened and Endangered Species* of this order, the Department recommends Council find
10 that based on the evidence provided in ASC Exhibits P and Q, and compliance with
11 recommended conditions, that the site would be designed to mitigate adverse impacts to
12 special status wildlife species and associated wildlife habitat, consistent with OAR 660-033-
13 0130(38)(j)(G).

14
15 *(k) An exception to the acreage and soil thresholds in subsections (g), (h), (i), and (j) of this*
16 *section may be taken pursuant to ORS 197.732 and OAR chapter 660, division 4.*

17
18 As previously discussed, the proposed facility would exceed the 12-acre threshold established
19 at OAR 660-033-0130(38)(g) for high-value farmland described at ORS 195.300(10) because it
20 would use, occupy, or cover 252 acres of high-value farmland. In addition, the proposed facility
21 would exceed the 20-acre threshold established by OAR 660-033-0130(38)(i) for arable lands,
22 because the facility would use, occupy, and cover 235.3 acres of arable lands.

23
24 The proposed facility therefore triggers the need for a goal exception through both the OAR
25 660-033-0130(38)(g) threshold exceedance and the OAR 660-033-0130(38)(i) threshold
26 exceedance.

27
28 The Department’s evaluation of the applicant’s Goal 3 exception request is provided below, in
29 Section IV.E.3. *Goal 3 Exception* of this order, and recommends the Council find that an
30 exception to Goal 3 is justified.

31
32 *(l) The county governing body or its designate shall require as a condition of approval for a*
33 *photovoltaic solar power generation facility, that the project owner sign and record in the*
34 *deed records for the county a document binding the project owner and the project owner's*
35 *successors in interest, prohibiting them from pursuing a claim for relief or cause of action*
36 *alleging injury from farming or forest practices as defined in ORS 30.930(2) and (4).*

37
38 Subject to compliance with the recommended condition, the Department recommends that the
39 Council find that the proposed facility would comply with OAR 660-033-0130(38)(l).

40
41 **Recommended Land Use Condition 5 (PRO):** Prior to operations, the certificate holder,
42 and underlying landowners on whose property the solar facility components are
43 located, shall record in the real property records of Umatilla County a Covenant Not to

1 Sue with regard to generally accepted farming practices on adjacent farmland. Copies of
2 the recorded covenants shall be provided to the Department.

3
4 *(m) Nothing in this section shall prevent a county from requiring a bond or other security*
5 *from a developer or otherwise imposing on a developer the responsibility for retiring the*
6 *photovoltaic solar power generation facility.*

7
8 OAR 660-033-0130(38)(m) allows for the governing body to require a bond or letter of credit for
9 the amount necessary to retire the facility during decommissioning. Recommended Retirement
10 and Financial Assurance Condition 4 would require that, prior to construction, the applicant
11 obtain and provide to the Department a bond or letter of credit in the specified amount
12 recommended by considered by Council as satisfactory for facility decommissioning. Based
13 upon compliance with this condition, the Department recommends Council conclude that the
14 requirements under OAR 660-033-0130(38)(m) would be satisfied.

15
16 IV.E.3 Goal 3 Exception

17
18 The proposed facility would use, occupy or cover approximately 261 acres of high-value
19 farmland/arable soils,⁸⁷ approximately 235 acres of arable (NRCS Class IV) soil; and 55-88 acres
20 of nonarable (NRCS Class VII) soils as illustrated below in Figure 6: High-Value Farmland within
21 0.5-Mile Land Use Analysis Area/Subject Tracts within Site Boundary.⁸⁸ Therefore, the proposed
22 solar facility components would not comply with OAR 660-033-0130(38)(g) and (i), which
23 prohibit a photovoltaic solar power generation facility from using, occupying or covering more
24 than 12 acres of high-value farmland or 20 acres of arable land, respectively. Pursuant to ORS
25 469.504(2), if a proposed facility does not comply with an applicable substantive criterion, the
26 proposed facility must otherwise comply with the applicable statewide planning goal (here,
27 Goal 3 Agricultural Lands) or seek an exception to the statewide planning goal. Pursuant to ORS
28 469.504(1)(b)(B), non-compliance with a statewide planning goal requires a determination by
29 the Council that an exception to the goal is warranted under ORS 469.504(2). The intent of Goal
30 3, Agricultural Lands, is “To preserve and maintain agricultural lands. Agricultural lands shall be
31 preserved and maintained for farm use, consistent with existing and future needs for
32 agricultural products..” Taking a goal exception for an energy facility does not re-zone the land,
33 yet allows for a specific use for an energy facility for the duration of the life of the facility, after
34 which the facility would be retired and land would be restored to a useful nonhazardous
35 condition.

36
37 The Council’s Land Use standard at OAR 345-022-0030(4), repeats the language of ORS
38 469.504(2), stating:

39
40 *(4) The Council may find goal compliance for a facility that does not otherwise comply with*
41 *one or more statewide planning goals by taking an exception to the applicable goal.*

⁸⁷ High-value farmland per ORS 195.300(10)(f).

⁸⁸ WESAPDoc3-11 ASC Exhibit K Land Use 2022-10-22, Table K-1.

1 *Notwithstanding the requirements of ORS 197.732, the statewide planning goal pertaining*
2 *to the exception process or any rules of the Land Conservation and Development*
3 *Commission pertaining to the exception process goal, the Council may take an exception to a*
4 *goal if the Council finds:*

- 5 (a) *The land subject to the exception is physically developed to the extent that the*
6 *land is no longer available for uses allowed by the applicable goal;*
7 (b) *The land subject to the exception is irrevocably committed as described by the*
8 *rules of the Land Conservation and Development Commission to uses not allowed*
9 *by the applicable goal because existing adjacent uses and other relevant factors*
10 *make uses allowed by the applicable goal impracticable; or*
11 (c) *The following standards are met:*
12 (A) *Reasons justify why the state policy embodied in the applicable goal should*
13 *not apply;*
14 (B) *The significant environmental, economic, social and energy consequences*
15 *anticipated as a result of the facility have been identified and adverse*
16 *impacts will be mitigated in accordance with rules of the Council applicable to*
17 *the siting of the facility; and*
18 (C) *The facility is compatible with other adjacent uses or will be made compatible*
19 *through measures designed to reduce adverse impacts.*
20

21 The applicant seeks an exception under OAR 345-022-0030(4)(c) based on the following five
22 reasons:
23

- 24 1. Consistency with Local and State Energy Policies
25 2. Locational Dependency (interconnection opportunities, minimal impacts to agriculture,
26 minimal impacts to other sensitive resources, existing site access)
27 3. Lack of Agricultural Use and Value
28 4. Minimal Impact to Agriculture
29 5. Local Economic Benefit
30

31 To allow for Council to consider the merits of each reason as separate and distinct reasons, and
32 use the same “reason” description used for prior Council decisions, for “reasons” that have
33 been reviewed in prior Council Orders, the Department recommends that the reasons be
34 described and organized based on the following:
35

- 36 1. Consistency with Local and State Energy Policies
37 2. Locational Dependency (interconnection opportunities, ~~minimal impacts to agriculture,~~
38 ~~minimal impacts to other sensitive resources,~~ existing site access)
39 3. ~~Lack of Agricultural Use and Value~~ Minimal Direct Impacts to Agriculture within Subject
40 Tracts
41 4. ~~Minimal Impact to Agriculture~~ Minimal Indirect Impacts to Agricultural within
42 Surrounding Area
43 5. Minimal Impacts to Resources Protected by Council standards
44 6. Local Economic Benefit

1
2 Based on the evaluation presented below, the Department recommends that Council find that
3 a goal exception under OAR 345-022-0030(4)(c) is appropriate.

4
5 **Consistent with Implementing Local and State Energy Policies**

6
7 The applicant requests that Council consider the proposed facility’s consistency with local and
8 state energy policies as a reason that justifies taking an exception to the statewide policy
9 embodied in Goal 3, *Agricultural Lands*.

10
11 The referenced local and state energy policies include: LCDC’s Statewide Planning Goal
12 embodied in Goal 13, Energy Conservation (utilize renewable energy sources), which is
13 reflected in UCCP Chapter 16; and Oregon House Bill 2021 (large investor-owned utilities and
14 electricity service suppliers must reduce greenhouse gas emissions by 100 percent by 2040).
15 Council has repeatedly rejected this proposed reason.⁸⁹

16
17 Neither Goal 13 nor House Bill 2021 require renewable energy to be procured from Oregon-
18 based resources, nor do they address where renewable energy facilities should be located, let
19 alone suggest such facilities may be placed on agricultural lands as an exception to Goal 3. To
20 the contrary, the Oregon Court of Appeals has expressly held that Goal 13 does not provide a
21 basis for a reasons exception to Goal 3.⁹⁰ Further, the applicant has not provided a power
22 purchase agreement or similar assurance to document that the proposed facility would provide
23 power related to an investor-owned utility (IOU) in Oregon order to achieve goals under
24 Oregon House Bill 2021.

25
26 Based on the analysis presented above, the Department recommends Council reject the
27 applicant’s reason that the proposed facility would be “consistent with local and state energy
28 policies” as justifying taking an exception to Goal 3.

29
30 **Locationally Dependent**

31
32 The applicant requests that Council consider that the proposed facility site is “locationally
33 dependent” and that the site’s locational dependency is a reason that justifies taking an

⁸⁹ BSPAPP Final Order Application for Site Certificate on Bakeoven Solar Project. 2020-04-24. p.113.

⁹⁰ “We agree with LUBA’s conclusion that Goal 13 does not require counties to develop or facilitate the development of energy facilities. . . . Neither the text of the goal nor its guidelines ‘require’ the county to develop or facilitate the development of any particular land use, much less large solar power generation facilities. [footnote omitted]. Instead, Goal 13 requires that *all* development on land be ‘managed and controlled’ to conserve energy. The text of the goal and its guidelines do not directly or indirectly require the development of energy facilities. . . . Or Solar’s exception request was to the requirement in Goal 3 that authorizes counties to approve ‘farm uses and those nonfarm farm uses defined by [LCDC] rule’ and to the requirement in OAR 660-033-0130(38) that the facility be not more than 12 acres in size when located on high-value farmland. Thus, the exception was to justify an energy facility of a particular size, and Goal 13 has no bearing on that justification. *1000 Friends of Oregon v. Jackson Cnty.*, 292 Or. App. 173, 192-193, 423 P.3d 793, 804-805 (2018) (emphasis in original).

1 exception to the statewide policy embodied in Goal 3, *Agricultural Lands*. “Locationally
2 dependent” factors include that the site would not require new transmission lines; it would not
3 impact active agricultural operations⁹¹ or sensitive species, habitat or wetlands; and is located
4 directly off of a primary road, S. Edwards Road which feeds directly from US-395. As noted
5 above, the information related to minimal impacts to agriculture and sensitive species, habitat
6 and wetlands is evaluated under the reason, “minimal impacts to agriculture – tract-level
7 analysis” and “minimal impacts to resources protected by Council standards” and is not
8 duplicated here.

9
10 *Site Provides Existing Opportunities for Grid Interconnection – Omits New Transmission*
11 *Lines*

12
13 There are three existing transmission lines with interconnection capability for the proposed
14 facility within or adjacent to the proposed site, as presented in Figure 5 below: two existing
15 transmission line rights-of-way, including BPA’s McNary to Roundup 230-kV Transmission and
16 PacifiCorp’s Pendleton to Hermiston 69-kV line; and, UEC 115-kV transmission line (parallel to
17 eastern edge of site boundary). The proposed facility does not include a grid interconnection
18 transmission line because of the existing transmission lines within and adjacent to the site
19 boundary; the applicant anticipates interconnecting and utilizing the existing UEC 115-kV
20 transmission line for grid interconnection.⁹²

21
22 The Department agrees that three existing transmission lines, with interconnection potential by
23 the proposed facility, which cross or parallel the site boundary offers a substantial benefit for
24 the use of this specific site for use by an industrial facility. To ensure that this representation is
25 realized, the Department recommends Council impose a condition (sub(a)) below) requiring
26 that, prior to construction of the facility, the applicant provide an executed interconnection
27 agreement between applicant and one of the three existing utilities operating the identified
28 lines.

29
30 **Recommended Land Use Condition 6 (PRO):** Prior to operation, the certificate holder
31 shall provide to the Department:

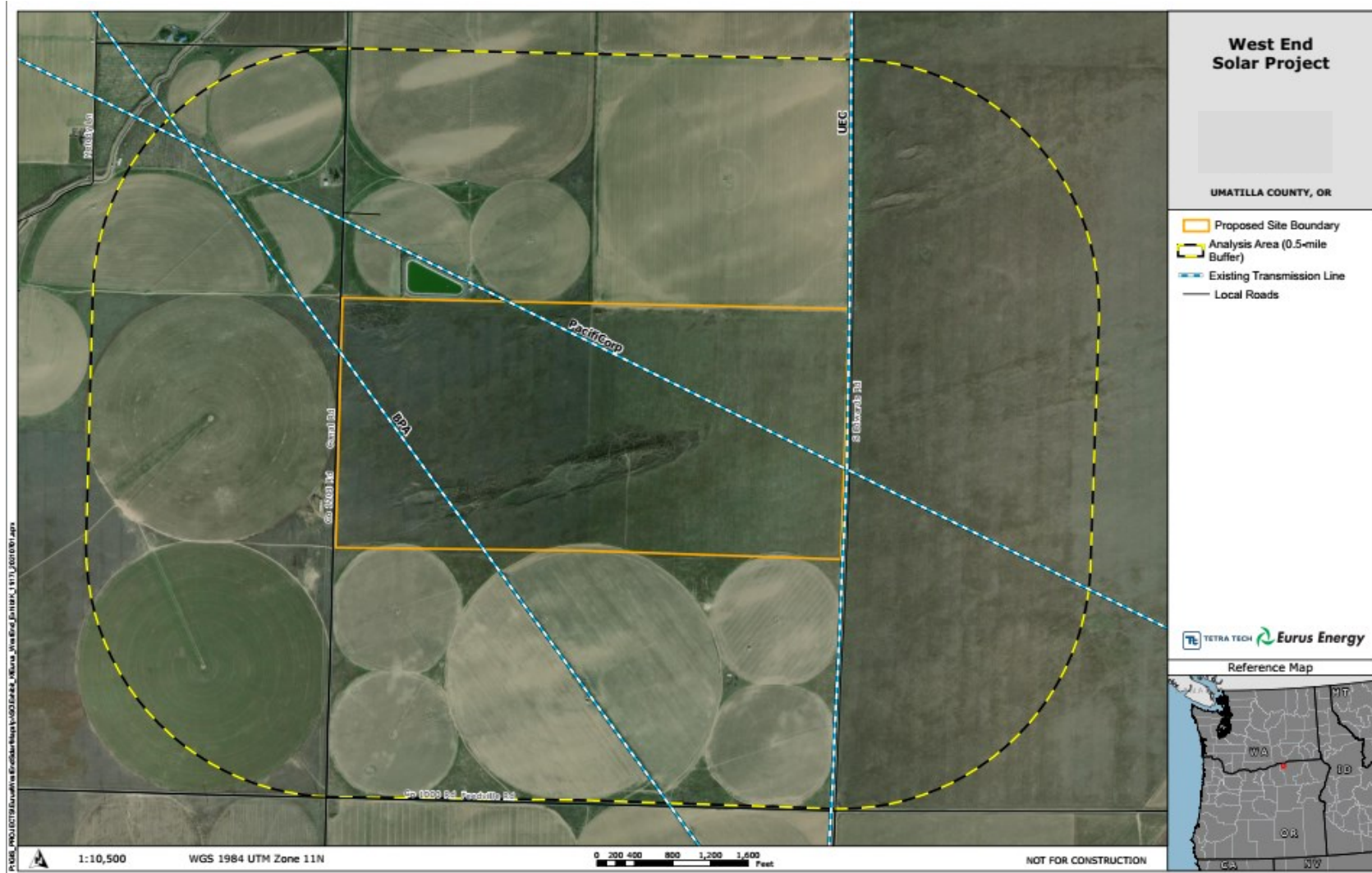
- 32 a. An executed interconnection agreement with Umatilla Electric Cooperative,
33 Bonneville Power Administration or PacifiCorp demonstrating that the facility has an
34 interconnection agreement for the life of the facility, to one of the existing
35 transmission lines, as presented in the Site Certificate, Figure 1.

⁹¹ In ASC Exhibit [K4](#), the applicant identifies 4 acres of irrigated agricultural (pivot circles along southern edge of site boundary) within the site boundary. Soils on irrigated lands are considered high-value farmland under ORS 195.300(10)(a), which has not been evaluated or represented directly in ASC Exhibit K. Applicant affirms that the facility will be designed to avoid these 4 acres. The representation is imposed in recommended Land Use Condition [12 with a 10-foot setback on the southern fence line](#). The land use evaluation is based on avoidance of ORS 195.300(10)(a) high-value farmland.

⁹² WESAPDoc3-1 ASC Exhibit B Project Description 2022-09-28, p.2.

- 1 b. An executed shared use agreement with Umatilla Electric Cooperative, Bonneville
- 2 Power Administration or PacifiCorp (third-party) for shared use of the switchyard
- 3 substation.
- 4 i. If the third-party proposes to substantially modify the shared switchyard
- 5 substation, certificate holder shall submit an amendment determination request
- 6 to obtain a determination from the Department on whether a site certificate
- 7 amendment is required or request for site certificate amendment to account for
- 8 any significant change in the decommissioning amount required under
- 9 Retirement and Financial Assurance Condition 4.
- 10
- 11

1 **Figure 5: Existing Transmission Lines within Proposed Site Boundary**



2

3

1 *Site Provides Existing Access – Omits New External Access Roads*

2
3 The proposed facility site omits the need for new external access roads or major local road
4 improvements. A local road, South Edwards Road, parallels the east side of the site boundary,
5 as presented in Figure 5, *Existing Transmission Lines within Proposed Site Boundary* above and
6 offers direct access to the site, only requiring that a driveway be constructed for site access.
7 South Edwards Road has an existing level of service (LOS) A-rating, with volume to capacity
8 ratio of 0.10 to 0.25.⁹³ Based on the level of anticipated construction traffic at 534 one-way trips
9 per day, South Edwards Road has sufficient carrying capacity to support construction traffic
10 while maintaining an A-rating LOS.

11
12 Based on the above-described facts, the Department recommends Council find that the
13 significant advantages of the site support the reason that the site is “locationally dependent”
14 and is one of four reasons that cumulatively justify taking an exception to Goal 3.

15
16 **Minimal Direct Impacts to Agriculture within Subject Tracts**

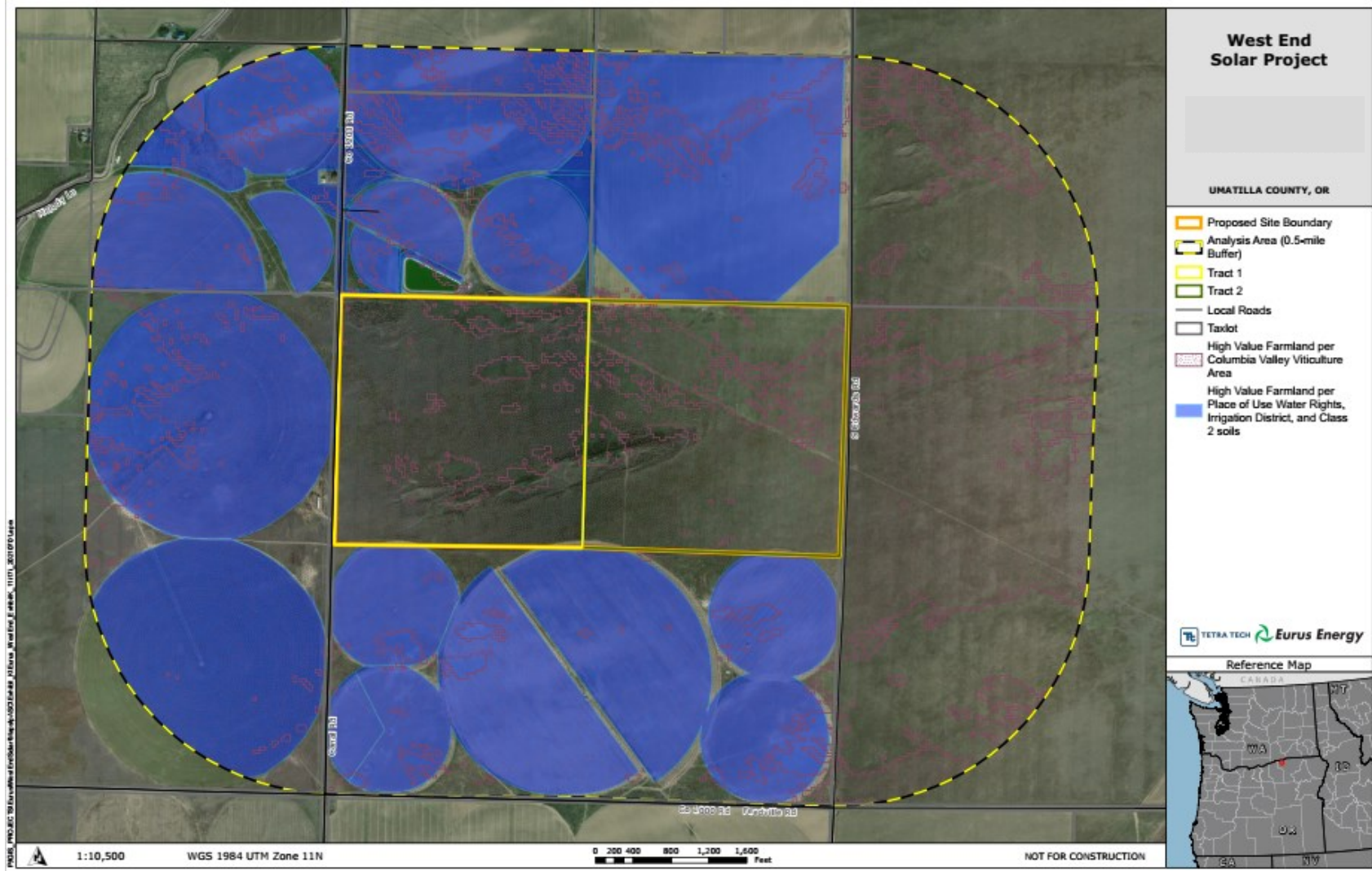
17
18 The applicant requests that Council find that a reason justifying taking an exception to the
19 statewide policy embodied in Goal 3, *Agricultural Lands*,² is that the site lacks agricultural use
20 and value.

21
22 The proposed site boundary includes approximately 261 acres of high-value farmland as
23 defined under ORS 195.300(10)(f) within two adjacent tracts, as presented in Figure ~~65~~ below.⁹⁴
24 Figure 7 illustrates the irrigation status (inclusion in a water district and/or ground water rights)
25 of the adjacent tracts as well as the agricultural uses on adjacent lands and subject tracts.
26

⁹³ WESAPPD03-21 ASC Exhibit U Public Services 2022-09-28. Table U-8, p.23.

⁹⁴ OAR 660-033-0020(14) defines “tract” as “one or more contiguous lots or parcels under the same ownership.”

1 **Figure 6: High-Value Farmland within 0.5-Mile Land Use Analysis Area/Subject Tracts within Site Boundary**



2

1 The tracts are owned by two landowners, Art~~hur~~ Prior of Windblown Solar (Tract 1) and Steve
2 and Wanda Scott (Tract 2). While the soils are considered high-value farmland under ORS
3 195.300(10)(f) due to the site’s location within the Columbia Valley viticulture area and location
4 above mean sea level, slope and aspect, the site is not currently used for viticulture or other
5 form of agriculture. The subject tracts are primarily composed of 1B Adkins fine sandy loam
6 soils (Tract 1: 102 acres, 63 percent of parcel; Tract 2: 133 acres, 82 percent of parcel) and are
7 soils classified by the Natural Resources Conservation Service (NRCS) as Class 4 - the lowest of
8 the arable soil classifications.⁹⁵ The soil classification for the remaining 88 acres of both tracts is
9 Class 7 (Quincy fine sand) which has very high permeability and is not prime farmland.

10
11 ~~Signed letters from both landowners are provided in ASC Exhibit K Attachments K-1 and K-2;~~
12 ~~the letters describe the history of use and lack of agricultural viability at the site; relevant~~
13 ~~landowner statements are incorporated below.~~

14
15 ~~Based on U.S. Geological Survey historic and aerial photography, the subject tracts were used~~
16 ~~for agricultural purposes in the 1950s and 1970s.~~ Both tracts are currently fallow. Neither tract
17 has a water right. A water right transfer to Tracts 1 and 2 does not appear likely due to limited
18 water availability in Umatilla County, exclusion from boundaries of irrigation districts and
19 technological and financial implications of operating pivot irrigation equipment with the
20 existing BPA and PacifiCorp transmission line rights-of-way traversing across each tract.⁹⁶

21
22 In a signed letter dated June 14, 2021, underlying landowner Arthur Prior of Windblown Solar
23 LLC states,

24
25 “We have not used the proposed facility site for any type of agricultural enterprise or
26 farming operation. The facility has never had water rights or been irrigated.” “Because
27 of the lack of irrigation the land is not useful to use for agricultural purposes.”⁹⁷

28
29 Testimonial declaration of property owner Arthur Prior confirms that he owns Tract 1 of the
30 subject properties. He also confirms that he is the owner of Windblown Ranch Inc. and owns
31 and farms several irrigated parcels located west and east of Tract 1.⁹⁸ See Figure 7: Subject Tract
32 Proximity to Adjacent Agricultural Uses and Irrigation Status. Testimonial declaration of
33 property owner Arthur Prior confirms that his property (Tract 1) is not viable for farm use
34 without a water right, as represented below:

35
⁹⁵ WESAPPD03-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Page 9 of 192.

⁹⁶ WESAPPD03-11 ASC Exhibit K Land Use 2022-09-28. p. 45. In ASC Exhibit K, the applicant states that
“Windblown Ranch made the decision to not allocate some of its limited water rights to Tract 1 because the parcel
is obstructed by the existing Bonneville Power Administration transmission line and the PacifiCorp transmission
line. These obstructions would limit a center pivot to a partial circle thus increasing the per-acre cost to irrigate the
parcel. This is because the infrastructure costs are the same for a center pivot irrigation system regardless if the
pivot covers a full 360-degree circle or a partial circle.”

⁹⁷ WESAPPD03-11 ASC Exhibit K Land Use 2022-09-2. Attachment K-1

⁹⁸ WESAPPD03-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Attachment 2.

- 1 • Mr. Prior acquired Tract 1 in 1990 and has not used the land for cultivation because of
2 the lack of available water, marginal production capacity, and because he focuses his
3 farm use on productive lands.⁹⁹
- 4 • Dry-land wheat farming is not economically feasible on Tract 1 given the limited acreage
5 of arable soils (102 acres), lack of existing or ability to obtain a water right, the low
6 potential for dryland crop yield, and the high costs of wheat cultivation (i.e., fertilizer,
7 fuel, herbicides).
- 8 • Adkins fine sandy loam soils (102 acres 63% of parcel) is extremely limiting for dryland
9 cultivation and can actually be detrimental due to risk of wind erosion.
- 10 • Tract 1 has no irrigation water or water rights:
 - 11 ○ Tract 1 is located within the Stage Gulch Critical Groundwater Area; therefore,
12 acquisition of new groundwater irrigation water rights is not allowed.
 - 13 ○ Tract 1 is not located within the Stanfield Irrigation District or the Hermiston
14 Irrigation District and inclusion into either one of these districts is highly unlikely
15 due to the unavailability of water and the need to go through a federal boundary
16 adjustment processes.

17
18 In a signed letter dated July 5, 2021, underlying landowners Steve and Wanda Scott of S&W
19 Scott Properties LLC state,

20
21 “..land..has not been suitable for farming.” “We do not have water rights for irrigation
22 and we do not get enough rain to raise any type of a viable crop. The soil is very sandy
23 and without irrigation is not good for farming.”¹⁰⁰

24
25 Testimonial declaration of property owner Steve Scott which concludes that his property (Tract
26 2) is not viable for farm use without a water right, is included below¹⁰¹:

- 27 • Mr. Scott attempted to cultivate dryland wheat twice on Tract 2 – once in 2013 and
28 once in 2015;¹⁰²
- 29 • Dryland wheat production in 2013 produced about 14 bushels per acre. In 2015, they
30 averaged 11 bushels per acre;¹⁰³
- 31 • Costs of farming land exceeded the value in crops and is not economically feasible for
32 the landowner;
 - 33 ○ For instance, -Mr. Scott attempted dryland wheat farming in 2013 and in 2015. In
34 2015, Mr. Scott received \$5.55/bushel for total of \$8,097 revenue. However,

⁹⁹ WESAPDoc4-1 DPO Hearing Recording 2022-11-17, at approx.. 1:33:15, 1:37:00, and 1:42:00

¹⁰⁰ WESAPDoc3-11 ASC Exhibit K Land Use 2022-09-2. Attachment K-2.

¹⁰¹ WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Attachment 1.

¹⁰² ORS 215.203(2)(b)(B).

¹⁰³ WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Page 181 of 192.
Attachment 5: USDA Economic Research Service. Wheat Production Costs and Returns Per Planted
Acre, Excluding Government Payments. Updated: October 03, 2022.

1 costs of producing the 2015 crop was approximately \$16,370, which is a loss of
2 approximately \$8,273 (not including losses from fixed costs.)¹⁰⁴

- 3 • Landowner has left land fallow because lack of profitability.
- 4 • Landowner has not been able to secure water rights:
 - 5 ○ The land is located within the Stage Gulch Critical Groundwater Area, acquisition
6 of new groundwater irrigation water rights is not allowed, and landowner has
7 not been able to get water rights to irrigate the parcel. This is evidenced by an
8 Oregon Water Resources Department (DWR) map of the Stage Gulch Critical
9 Groundwater Area and in a copy of the *Final Order Before the Water Resources*
10 *Department of Oregon In the Matter of the Determination of a Critical*
11 *Groundwater Area in the Stage Gulch Area*. On page 5 of this final order is a map
12 of the Stage Gulch Critical Groundwater Area (CGWA) with the approximate
13 location of the Project site boundary outlined in red and located in subarea A. On
14 page 16 of the Final Order it states “It is FURTHER ORDERED that no new
15 application for a permit to appropriate water from either the upper or the deep
16 basalt groundwater reservoirs within the Stage Gulch Critical Groundwater Area
17 be accepted for filing.”¹⁰⁵
 - 18 ○ The legal recording of the Landowner’s Notice of East Improvement District,
19 adopted December 4, 2018, lists all of the parcels included in the East
20 Improvement Irrigation District. The two tax parcels that make up the facility site
21 boundary (4N29C0000500 and 4N29C0000200) are not included in the East
22 Improvement District.

23
24 Oregon Water Resources Department (DWR) confirms the location of the facility site within the
25 Stage Gulch Critical Groundwater Area and that no new water rights can be issued within the
26 designated area, and this is unlikely to change in the future due to ongoing substantial declines
27 in groundwater availability. Further, DWR indicated water rights in the East Improvement
28 Irrigation District can be re-located but the lands within that boundary do not necessarily
29 receive and/or have access to this water as it is limited by membership and physical limitations
30 such as necessary infrastructure to deliver water to all lands covered, such as the facility site,
31 which lacks infrastructure.¹⁰⁶

32 33 Regional Wheat Price and Cost Assessment

34
35 The EFU-zoned land proposed for use by the proposed facility includes high-value farmland;
36 and arable and non-arable soils. The intent of Goal 3 is to preserve and maintain agricultural
37 lands for farm use. ORS 215.203(2)(a) defines “farm use” as the current employment of land for

¹⁰⁴ WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Page 18 of 192.
Attachment 1. Testimonial declaration of property owner Steve Scott.

¹⁰⁵ WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Page 179 of 192.
Attachment 4, Final Order Before the Water Resources Department of Oregon In the Matter of the Determination
of a Critical Groundwater Area in the Stage Gulch Area, Umatilla County.

¹⁰⁶ WESAPDoc1 Proposed Order Agency Consultation ODWR Kowitz 2022-12-10.

1 the primary purpose of obtaining a profit in money by raising, harvesting and selling crops.¹⁰⁷
2 The only arable soils located within the site boundary are the 1B Adkins fine sandy loam soils,
3 which have the lowest capability class (Class 4) of the arable soils definition. Adkins fine sandy
4 loam soils, similar soils as adjacent lands, do well for certain irrigated crops as the sandy loam
5 drains well, reducing risk of disease or rot and making it easy to dig/harvest root crops. But for
6 dryland cultivation, this soil type is extremely limiting and cultivation of these soils can actually
7 be detrimental due to risk of wind erosion. According to NRCS, the Adkins series are suitable for
8 “dryland wheat, irrigation cropland, and range.” Tract 1 and Tract 2 have no irrigation water
9 rights, the only suitable agricultural use for the limited Class 4 arable soils located in the site
10 boundary would likely be dryland wheat or range/grazing.¹⁰⁸

11
12 Landowner testimony on the limited profitability of their cultivation efforts is supported by
13 United States Department of Agriculture (USDA) data provided by the applicant, as summarized
14 below¹⁰⁹.

15
16 Oregon’s historic average yield for dryland winter wheat includes:¹¹⁰

- 17 • 2013: 62 bushels per acre
- 18 • 2015: 47 bushels per acre
- 19 • 2021: 45 bushels per acre

20
21 The ten-year average production costs include:¹¹¹

- 22 • Wheat seed = \$19.39 per acre
- 23 • Fertilizer = \$54.55 per acre
- 24 • Chemicals/herbicide = \$24.29 per acre
- 25 • Fuel/lube/electricity = \$14.92 per acre.

26
27 Using these average costs per acre and applying them to the site boundary acreage of 323
28 acres, would equal an average cost of \$113.15 per acre, or a total of \$36,545.84 per crop.
29 Assuming the site boundary were to yield 13 bushels per acre (the NRCS average assigned to
30 the Adkins Soil Series) for a total harvest of 4,199 bushels, and assuming the ten-year average

¹⁰⁷ See also OAR 660-033-0020(7)(a) .ORS 215.203(2)(b)(B) “current employment” of land for farm use includes: Land lying fallow for one year as a normal and regular requirement of good agricultural husbandry...

¹⁰⁸ WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02. Page 9 of 192.

¹⁰⁹ WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Attachment 5.

Additional information supporting demonstration why the site boundary is not viable for dry land agricultural production.

¹¹⁰ USDA National Agricultural Statistics Service. Small Grains Summary for 2013, 2015, and 2021. Available at <https://downloads.usda.library.cornell.edu/usda-esmis/files/5t34sj573/zs25xc125/1r66j372m/SmalGraiSu-09-30-2013.pdf> and

<https://downloads.usda.library.cornell.edu/usdaesmis/files/5t34sj573/s7526f71r/x346d670c/SmalGraiSu-09-30-2016.pdf> and https://www.nass.usda.gov/Quick_Stats/Ag_Overview/stateOverview.php?state=OREGON

¹¹¹ October 2022 USDA Economic Research Service cost and return estimates for major production regions of the US, including the “Basin and Range” production region (which includes the Columbia Basin and Umatilla County) and WESAPDoc3-6 Applicant Response DPO-EFSC Comments 2022-11-17 and 2022-12-02, Attachment 5.

1 price wheat at \$5.61 per bushel, we can estimate a gross return of \$23,556.39. Using these ten-
2 year averages of both costs and returns would equal a net loss of \$12,989.45 per crop. Using
3 the ten-year average price of wheat per bushel and the ten-year average of the costs illustrated
4 above, the land within the site boundary would need to produce a minimum of 21 bushels per
5 acres to come close to breaking even. The low production yield associated with the Atkins Soil
6 Series severely limits the economic viability of cultivating dry-land wheat within the site
7 boundary, analysis area, and within lands in the region that may have similar soils.
8

9 Based on the above recommended facts, reasoning and analysis, the Department recommends
10 Council find that “minimal direct impacts to agriculture within the subject tracts” is one of four
11 reasons that cumulatively justify taking an exception to Goal 3.
12

13 **Minimal Indirect Impacts to Agriculture within Surrounding Area**

14

15 The applicant requests that Council find that a reason justifying taking an exception to the
16 statewide policy embodied in Goal 3, *Agricultural Lands* is that there would be minimal impacts
17 to agriculture within the surrounding area.
18

19 The proposed facility will not require relocating access roads or farm infrastructure on
20 neighboring properties. The proposed facility will not displace any jobs or impact any ancillary
21 businesses related to agriculture goods and services because the site is not currently nor in the
22 last 50 years has it been used for or in support of agricultural activity.
23

24 Based on the statements provided by the underlying landowners affirming current and historic
25 use and benefit of the land, the Department recommends Council find that the indirect impact
26 to agricultural goods and services within the county would be minimal or none. Therefore, the
27 Department recommends Council find that “minimal direct impacts to agriculture within the
28 surrounding area” is one of four reasons that cumulatively justify taking an exception to Goal 3.
29

30 **Minimal Impacts to Resources Protected by Council Standards**

31

32 The applicant requests that Council find that a reason justifying taking an exception to the
33 statewide policy embodied in Goal 3, *Agricultural Lands* is that there would be minimal impacts
34 to other resources protected by Council standards.¹¹²
35

36 As evaluated in Section IV.F. *Protected Areas* of this order, construction and operation of the
37 proposed facility will not impact any protected areas. As evaluated in Section IV.J. *Scenic*
38 *Resources* of this order, construction and operation of the proposed facility will not impact any
39 important or significant scenic resources. As evaluated in Section IV.K. *Historic, Cultural and*
40 *Archeological Resources* of this order, construction and operation of the proposed facility will

¹¹² In ASC Exhibit K, this reason is embedded within the evaluation of “locational dependency”; the Department recommends Council evaluate minimal impacts to resources protected by Council standards as a separate and distinct reason.

1 not impact any NRHP-eligible historic, cultural or archeological resources. As evaluated in
2 Section IV.L. *Recreation* of this order, construction and operation of the proposed facility will
3 not impact any important recreational opportunities. As evaluated in Section IV.R.2 *Removal-*
4 *Fill Law* of this order, construction and operation of the proposed facility will not impact any
5 wetlands or waters of the state.

6
7 Because the site is not used for agricultural purposes, and is largely comprised of eastside
8 grasslands and shrub-steppe, the lands are considered fish and wildlife habitat under the
9 Council’s Fish and Wildlife Habitat standard (OAR 345-022-0060). The habitat is suitable for
10 Washington Ground Squirrel (WGS) and Laurence’s milkvetch, state-listed threatened and
11 endangered species and plants, however, surveys conducted in 2020 and 2021 at the site
12 identified no presence of these species. Based on consultation with ODA on October 21, 2022,
13 the 2021-22 surveys for Laurence’s milkvetch may be relied upon to determine a low likelihood
14 of any changes to the potential of the species to occur onsite.

15
16 Preconstruction surveys, required under recommended Threatened and Endangered Species
17 Condition 1, would require that the certificate holder re-evaluate suitable habitat within and
18 extending 1,000-feet from the site boundary to determine whether any changes have occurred
19 in presence of WGS colonies or burrows. If any WGS colonies or borrows are identified during
20 the preconstruction surveys, Threatened and Endangered Species Condition 2 would then
21 require avoidance of the identified WGS habitat.

22
23 A site that is large enough to construct and operate a utility scale energy facility, while having
24 minimal impacts to resources protected by Council standards offers a substantive advantage.
25 Therefore, the Department recommends Council find that “minimal impacts to resources
26 protected by Council standards” is one of four reasons that cumulatively justify taking an
27 exception to Goal 3.

28
29 **Local Economic Benefit**

30
31 The applicant requests that Council consider that the “local economic benefit” realized from
32 construction and operation of the proposed facility be a reason that justifies taking an
33 exception to the statewide policy embodied in Goal 3, *Agricultural Lands*.

34
35 The 324 acres proposed for use by the facility currently provide no economic benefit to the
36 underlying property owners because no agricultural activity occurs or has occurred there due to
37 the poor quality soils. ASC Exhibit K Attachments K-1 and K-2 include letters from the two
38 underlying landowners. In a signed letter dated June 14, 2021, underlying landowner Arthur
39 Prior of Windblown Solar LLC states,
40

1 “We have not used the proposed facility site for any type of agricultural enterprise or
2 farming operation. The facility has never had water rights or been irrigated.” “Because
3 of the lack of irrigation the land is not useful to use for agricultural purposes.”¹¹³
4

5 In a signed letter dated July 5, 2021, underlying landowners Steve and Wanda Scott of S&W
6 Scott Properties LLC state,
7

8 “..land..has not been suitable for farming.” “We do not have water rights for irrigation
9 and we do not get enough rain to raise any type of a viable crop. The soil is very sandy
10 and without irrigation is not good for farming.”¹¹⁴
11

12 Applicant states that the proposed facility will provide local economic benefits through full-time
13 jobs, construction jobs, compensation to landowners via lease agreements, improvements to
14 local road networks, and community service fees.
15

16 The Department recommends Council reject the applicant’s “local economic benefit” as a
17 reason justifying taking an exception to Goal 3 based on the following analysis.

- 18 • The applicant has not selected a contractor and therefore has not provided any
19 evidence that full-time¹¹⁵ or construction jobs will be filled with local workers or that
20 hired workers will use goods and services within Umatilla County.
- 21 • Any improvements to local roads would be required under the road use agreement with
22 the county, to ensure that public service providers are not impacted (see recommended
23 Public Services Conditions 1 and 2), and therefore it is not a unique result of the
24 proposed facility.
- 25 • The Council has previously expressed disagreement that lease agreements with
26 landowners is a supportive reason for justifying local economic benefit as a reason.¹¹⁶
- 27 • The applicant simply refers to “community service fees” but does not explain or offer
28 any evidence of coordination with Umatilla County – therefore the Department does
29 not have the ability to evaluate whether this would provide a local economic benefit or
30 whether it is even an available option.
31

32 **Summary of Reasons Department Recommends Justify the Exception Request**

33 Summary of Reasons Recommended as Justifiable 34 35

¹¹³ WESAPPD0c3-11 ASC Exhibit K Land Use 2022-09-28. Attachment K-1

¹¹⁴ WESAPPD0c3-11 ASC Exhibit K Land Use 2022-09-28. Attachment K-2.

¹¹⁵ WESAPPD0c3-21 ASC Exhibit U Public Services. 2022-09-28, Section 3.2.1.2 states, “Since the Project can be operated remotely, is it anticipated that only two to five workers would be deployed to the site when necessary for maintenance. It’s anticipated that the operation and maintenance (O&M) staff will be hired locally (within 3-hour radius of the Project site); however, positions that require previous experience working at solar facilities may be hired from non-local areas (outside a 3-hour radius of the Project site).”

¹¹⁶ WRWAMD4. Final Order on Request for Amendment 4 of the Wheatridge Wind Energy Facility Site Certificate. 2019-11-22. p. 64.

1 The Department recommends Council find that 1) locational dependency, 2) minimal direct
2 impacts to agriculture within subject tracts, 3) minimal indirect impacts to agricultural within
3 surrounding area; and 4) minimal impacts to other resources protected by Council standards as
4 ~~the~~ four reasons justified for that justify taking an exception to the statewide policy embodied in
5 Goal 3.

6 **Environmental, Socioeconomic and Energy Consequences (ESEE Analysis)**

7
8
9 Under OAR 345-022-0030(4)(c)(B) and ORS 469.504(2)(c)(B), in order for the Council to
10 determine whether to grant an exception to a statewide planning goal, the applicant must
11 show that “the significant environmental, economic, social and energy consequences” of the
12 proposed solar facility have been identified and mitigated in accordance with Council
13 standards.

14 *Environmental Consequences*

15
16
17 The proposed facility must satisfy the requirements of all applicable EFSC standards, rules and
18 statutes. Applicable environmental EFSC standards include: General Standard of Review; Soil
19 Protection standard; Protected Areas standard; Recreation Standard; Scenic Resources
20 standard; Fish and Wildlife Habitat standard; and the Threatened and Endangered Species
21 standard, as evaluated in this order. Based on the recommended findings of fact, conclusions of
22 law, and conditions of approval presented in this order related to environmental EFSC
23 standards, the Department recommends Council find that the proposed facility, including
24 mitigation, would not cause significant adverse environmental consequences or impacts.

25 *Economic Consequences*

26
27
28 The proposed facility would create a level of tax revenue in Oregon from construction- jobs; it
29 would result in lease payments for the two underlying landowners; and, would result in
30 property taxes to Umatilla County. The proposed facility is not anticipated to create negative
31 economic impacts to public services, based on letters from Umatilla County Sheriff’s Office and
32 Umatilla County Fire District #1 provided in in ASC Exhibit U Attachments U-5 and U-6.

33
34 Based on these facts, the Department recommends Council find that the proposed facility,
35 including mitigation, would have a beneficial economic impact.

36 *Social Consequences*

37
38
39 Social consequences are evaluated within the context of impacts on a community from a
40 proposed facility, such as impacts from facility visibility, noise, traffic, or demand on providers
41 of public services. As presented in this order, the proposed facility components would not be
42 expected to result in significant adverse visual or noise impacts on any scenic resource,
43 protected areas, or important recreational opportunity within the analysis areas; NRHP-eligible
44 historic, cultural and archeological resources or to public services.

1
2 Based on the recommended findings of fact and conclusions of law, and conditions of
3 compliance as presented in this order under the Council’s Scenic Resources standard; Historic,
4 Cultural and Archeological standard; Public Services standard; and Recreation standard, the
5 Department recommends Council find that the proposed facility would not cause significant
6 adverse social consequences.

7
8 *Energy Consequences*

9
10 The proposed facility would produce up to 50 MW of renewable, emissions-free energy.
11 Therefore, the Department recommends that the Council concludes that the proposed facility
12 would not cause significant adverse energy consequences and would provide a positive energy
13 consequence by producing clean, renewable electricity.

14
15 Compatibility with Adjacent Land Use

16
17 Under OAR 345-022-0030(4)(c)(C) (and ORS 469.504(2)(c)(C)), in order for the Council to
18 determine whether to grant an exception to a statewide planning goal, the applicant must
19 show that the proposed facility is compatible with other adjacent land uses or will be made
20 compatible through mitigation measures.

21
22 The proposed site boundary is surrounded by EFU-zoned land. Adjacent land uses directly
23 north, west and south of the site farming have a water right and are used for irrigated
24 agriculture. Potential impacts from proposed facility construction to adjacent agricultural
25 activities include: traffic congestion on local roads, wind and water-related erosion, offsite dust
26 and noxious weed infestations.

27
28 To minimize these impacts, the applicant represents that it will:

- 29
- 30 • Coordinate with adjacent landowners on construction and harvest schedules to
 - 31 minimize construction-related traffic impacts
 - 32 • Apply water or other dust control measures
 - 33 • Implement a weed control plan
- 34

35 The minimization measures addressing construction-related traffic, erosion and dust control,
36 and noxious weeds are represented in recommended Public Services Condition 1 and 2,
37 recommended Soil Protection Conditions 1 and 2 and recommended Land Use Conditions 7, 8,
38 9, 10 and 11.

39
40 Because adjacent farm practices on the north, west and southern end of the site boundary are
41 active, irrigated agricultural operations, the Department recommends Council require that, in
42 addition to the measures represented above, that the applicant be required to prepare a site
43 preparation and grading plan in consideration of harvest schedules and the availability of onsite
44 dust and erosion control measures. The intent of the grading plan is to minimize unnecessary

1 disturbance, preserve existing vegetation and ensure that grading only occurs there is adequate
2 dust control at the site. Adequate dust control shall be informed based on DEQ’s Fugitive Dust
3 Control Regulation.¹¹⁷

4
5 **Recommended Land Use Condition 7 (PRE):** Prior to construction of the facility, facility
6 component or phase, as applicable, the certificate holder shall:

- 7 a. Provide evidence to the Department of coordination with landowners of active
8 agricultural operations on property adjacent to the site boundary on construction
9 schedule, including site preparation and grading activities, road construction and
10 heavy equipment and worker traffic periods.
11 b. Provide to the Department a site preparation and grading plan, based on final facility
12 design, that includes phased levels of disturbance as necessary based on landowner
13 consultation and availability of dust and erosion control measures.

14
15 **Recommended Land Use Condition 8 (CON):** During construction of the facility, facility
16 component or phase, as applicable, the certificate holder shall:

- 17 a. Adhere to the site preparation and grading plan and any necessary phased levels of
18 disturbance to minimize dust and erosion impacts to adjacent farm practices.
19 b. Ensure adequate dust and erosion control measures are onsite prior to and during
20 any grading and other ground disturbing activities.
21 c. Adhere to the requirements of the Traffic Management Plan under Public Services
22 Condition 1.

23
24 The Department recommends Council impose conditions requiring that, prior to and during
25 construction, and during facility operation, the applicant implement a Noxious Weed Plan, as
26 follows:
27

¹¹⁷ OAR 340-208-0210(1) No person may cause or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired or demolished; or any equipment to be operated, without taking reasonable precautions to prevent particulate matter from becoming airborne.

Such reasonable precautions may include, but not be limited to the following:

- (a) Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
- (b) Application of water or other suitable chemicals on unpaved roads, materials stockpiles, and other surfaces which can create airborne dusts;
- (c) Full or partial enclosure of materials stockpiles in cases where application of water or other suitable chemicals are not sufficient to prevent particulate matter from becoming airborne;
- (d) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials;
- (e) Adequate containment during sandblasting or other similar operations;
- (f) Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne;
- (g) The prompt removal from paved streets of earth or other material that does or may become airborne.

1 **Recommended Land Use Condition 9 (PRE):** Prior to construction, the certificate holder
2 shall complete all applicable preconstruction requirements established in the Noxious
3 Weed Plan (Attachment P-4 of the Final Order on the ASC).

4
5 **Recommended Land Use Condition 10 (CON):** During construction, the certificate holder
6 shall implement and adhere to the requirements of the Noxious Weed Plan (Attachment
7 P-4 of the Final Order on the ASC or as approved to be amended by the Department).

8
9 **Recommended Land Use Condition 11 (OPR):** During operation, the certificate holder
10 shall implement and adhere to the applicable requirements of the Noxious Weed Plan
11 (Attachment P-4 of the Final Order on the ASC or as approved to be amended by the
12 Department).

13
14 On figures and calculations presented in the ASC, approximately 4 acres of high-value Class I
15 and II NRCS soils are mapped within the site boundary. The applicant commits to avoiding these
16 soils entirely. To ensure that the irrigated agriculture (pivot circle) on the northern perimeter of
17 the site boundary is avoided, the Department recommends Council impose the following
18 condition:

19
20 **Recommended Land Use Condition 12 (PRE):** Prior to construction, the certificate
21 holder shall provide to the Department final facility design/layout maps that include at
22 least a 10-foot setback of the southern perimeter fenceline to the pivot irrigation
23 operation on taxlot ~~4N290000017004~~4N29000000300.

24
25 Based upon the zone and type of adjacent land uses, and compliance with the above-
26 referenced conditions, the Department recommends Council find that the proposed facility
27 would be compatible with adjacent land uses.

28
29 The Department, therefore, recommends the Council find an exception to Goal 3 is justified
30 under OAR 345-022-0030(4)(c) and ORS 469.504(2)(c).

31 32 **Conclusions of Law**

33
34 Based on the foregoing recommended findings and the evidence in the record, and subject to
35 compliance with the recommended site certificate conditions, the Department recommends
36 the Council find an exception to Goal 3 is justified under OAR 345-022-0030(4)(c) and ORS
37 469.504(2)(c); ~~and that therefore the Department recommends the Council find that the~~
38 ~~proposed facility would comply with the applicable statewide planning goal (Goal 3).~~ As such,
39 subject to the recommended conditions, the Department recommends Council find that the
40 proposed facility would comply with the Council's Land Use standard.

41 42 **IV.F Protected Areas: OAR 345-022-0040**

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

8
9 (a) *National parks, including but not limited to Crater Lake National Park and Fort*
10 *Clatsop National Memorial;*

11
12 (b) *National monuments, including but not limited to John Day Fossil Bed National*
13 *Monument, Newberry National Volcanic Monument and Oregon Caves National*
14 *Monument;*

15
16 (c) *Wilderness areas established pursuant to The Wilderness Act, 16 U.S.C. 1131 et*
17 *seq. and areas recommended for designation as wilderness areas pursuant to 43*
18 *U.S.C. 1782;*

19
20 (d) *National and state wildlife refuges, including but not limited to Ankeny, Bandon*
21 *Marsh, Baskett Slough, Bear Valley, Cape Meares, Cold Springs, Deer Flat, Hart*
22 *Mountain, Julia Butler Hansen, Klamath Forest, Lewis and Clark, Lower Klamath,*
23 *Malheur, McKay Creek, Oregon Islands, Sheldon, Three Arch Rocks, Umatilla, Upper*
24 *Klamath, and William L. Finley;*

25
26 (e) *National coordination areas, including but not limited to Government Island,*
27 *Ochoco and Summer Lake;*

28
29 (f) *National and state fish hatcheries, including but not limited to Eagle Creek and*
30 *Warm Springs;*

31
32 (g) *National recreation and scenic areas, including but not limited to Oregon Dunes*
33 *National Recreation Area, Hell's Canyon National Recreation Area, and the Oregon*
34 *Cascades Recreation Area, and Columbia River Gorge National Scenic Area;*

35
36 (h) *State parks and waysides as listed by the Oregon Department of Parks and*
37 *Recreation and the Willamette River Greenway;*

38
39 (i) *State natural heritage areas listed in the Oregon Register of Natural Heritage*
40 *Areas pursuant to ORS 273.581;*

41
42 (j) *State estuarine sanctuaries, including but not limited to South Slough Estuarine*
43 *Sanctuary, OAR Chapter 142;*
44

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

4
5 (l) Experimental areas established by the Rangeland Resources Program, College of
6 Agriculture, Oregon State University: the Prineville site, the Burns (Squaw Butte) site,
7 the Starkey site and the Union site;

8
9 (m) Agricultural experimental stations established by the College of Agriculture,
10 Oregon State University, including but not limited to: Coastal Oregon Marine
11 Experiment Station, Astoria Mid-Columbia Agriculture Research and Extension
12 Center, Hood River Agriculture Research and Extension Center, Hermiston Columbia
13 Basin Agriculture Research Center, Pendleton Columbia Basin Agriculture Research
14 Center, Moro North Willamette Research and Extension Center, Aurora East Oregon
15 Agriculture Research Center, Union Malheur Experiment Station, Ontario Eastern
16 Oregon Agriculture Research Center, Burns Eastern Oregon Agriculture Research
17 Center, Squaw Butte Central Oregon Experiment Station, Madras Central Oregon
18 Experiment Station, Powell Butte Central Oregon Experiment Station, Redmond
19 Central Station, Corvallis Coastal Oregon Marine Experiment Station, Newport
20 Southern Oregon Experiment Station, Medford Klamath Experiment Station, Klamath
21 Falls;

22
23 (n) Research forests established by the College of Forestry, Oregon State University,
24 including but not limited to McDonald Forest, Paul M. Dunn Forest, the Blodgett
25 Tract in Columbia County, the Spaulding Tract in the Mary's Peak area and the
26 Marchel Tract;

27
28 (o) Bureau of Land Management areas of critical environmental concern,
29 outstanding natural areas and research natural areas;

30
31 (p) State wildlife areas and management areas identified in OAR chapter 635,
32 Division 8.

33 ***

34 (3) The provisions of section (1) do not apply to transmission lines or natural gas
35 pipelines routed within 500 feet of an existing utility right-of-way containing at least one
36 transmission line with a voltage rating of 115 kilovolts or higher or containing at least
37 one natural gas pipeline of 8 inches or greater diameter that is operated at a pressure of
38 125 psig.

39
40 **Findings of Fact**

41
42 The Protected Areas standard requires the Council to find that, taking into account mitigation,
43 the design, construction and operation of a proposed facility are not likely to result in
44 significant adverse impacts to any protected area as defined by OAR 345-022-0040.

1
 2 As required under OAR 345-021-0010(1)(L), the applicant identified the protected areas within
 3 the analysis area and evaluated potential impacts to those protected areas during construction
 4 and operation of the proposed facility in Exhibit L of the Application for Site Certificate. Impacts
 5 evaluated by the applicant included visual impacts as well as impacts from noise, increased
 6 traffic, water use, and wastewater disposal.

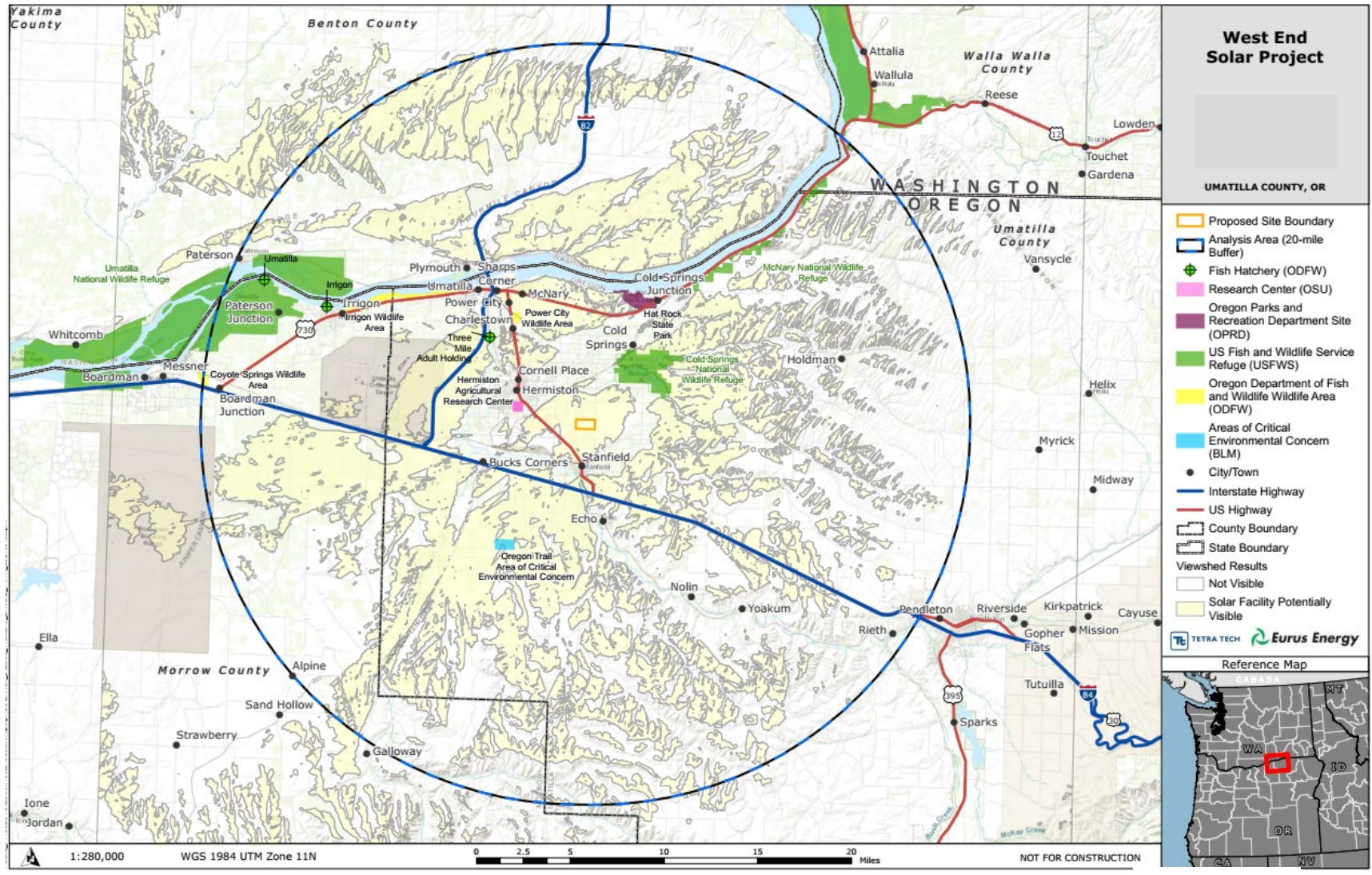
7
 8 As shown in Table 3: *Protected Areas within 20-mile Analysis Area*, there are twelve protected
 9 areas within 20-miles of the proposed facility site boundary. The protected area located nearest
 10 to the proposed facility site boundary is the Cold Spring National Wildlife Refuge, which is
 11 located approximately 2.4 miles northeast of the proposed facility site. The next closest
 12 protected area is the Hermiston Agricultural Research and Extension Center which is located
 13 approximately 3.2 miles west of the proposed facility site. The remaining protected areas are
 14 located six or more miles from the proposed facility site. Figure 8 shows the location of the
 15 protected areas in relation to the proposed facility site and includes the results of the
 16 applicant’s visibility analysis for protected areas within the analysis area.
 17

Table 3: Protected Areas within 20-mile Analysis Area

Protected Area	Approx. Distance from Proposed Site Boundary (miles)	Direction from Proposed Site Boundary	Basis for Protection OAR 345-022-0040(1)
Cold Spring National Wildlife Refuge	2.4	NE	(d)
Hermiston Agricultural Research and Extension Center	3.2	W	(m)
Power City Wildlife Area	6.0	NW	(p)
Three Mile Adult Holding Facility	6.3	NW	(f)
Hat Rock State Park	6.3	N	(h)
Echo Meadows Site, Oregon Trail Area of Critical Environmental Concern	6.8	SW	(o)
McNary National Wildlife Refuge	7.9	NE	(d)
Irrigon Wildlife Area	9.1	NW	(p)
Umatilla National Wildlife Refuge	13.8	NW	(d)
Irrigon Fish Hatchery	14.6	NW	(f)
Umatilla Fish Hatchery	18.2	NW	(f)
Coyote Springs Wildlife Area	19.7	W	(p)

18
 19
 20

1 **Figure 8: Protected Areas within 20-miles of the West End Solar Project**



2

1 *Potential Visual Impacts of Proposed Facility Structures*
2

3 The applicant conducted a zone of visual influence (ZVI) analysis to determine whether the
4 proposed facility would potentially be visible from the protected areas in the analysis area. The
5 ZVI analysis assumed that the facility would include solar arrays with a maximum height of 16
6 feet and a substation with associated equipment, including two interconnection utility poles,
7 with a maximum height of 30 feet.¹¹⁸ The impacts of these modeled components were expected
8 to be representative of impacts from other facility components. The analysis used a “bare-
9 earth” modeling approach, meaning that it only considers the effects of topography and does
10 not account for the effects of distance, lighting, weather, atmospheric attenuation factors,
11 vegetation, or buildings. The Department recommends that the ZVI analysis used sufficient
12 assumptions to adequately predict potential visibility of facility components within the
13 potentially affected viewshed.

14
15 The results of the ZVI analysis are shown about in Figure 8: *Protected Areas within 20-miles of*
16 *the West End Solar Project*. Based on the ZVI analysis, the proposed facility would be potentially
17 visible or partially visible from five of the protected areas identified in the analysis area,
18 including: the Cold Springs National Wildlife Refuge, the Power City Wildlife Area, Hat Rock
19 State Park, the Echo Meadows Site of the Oregon Trail ACEC, and the McNary National Wildlife
20 Refuge. The ZVI analysis indicates that the proposed facility would not be visible from the
21 remaining seven protected areas in the analysis area. Because the proposed facility is not likely
22 to be visible from these areas, the Department recommends that no visual impacts to these
23 areas are expected.

24
25 *Cold Springs National Wildlife Refuge*

26
27 The Cold Springs National Wildlife Refuge is a 3,117-acre wildlife refuge overlaying the Bureau
28 of Reclamation Cold Springs Reservoir. The Bureau of Reclamation manages the reservoir to
29 provide water for irrigation in the surrounding areas, and the U.S. Fish and Wildlife Service
30 manages refuge lands to provide habitat and nesting areas for native birds, migratory
31 waterfowl, and other species. According to the U.S. Fish and Wildlife Service recreational use of
32 the refuge is low, and most users are local residents engaged in hunting and fishing activities,
33 with birdwatching, horseback riding and day-use (e.g., picnicking, social gathering) accounting
34 for additional visitor use days.¹¹⁹

35
36 The refuge is located approximately 2.4 miles to the northeast of the proposed facility site.
37 From the refuge, the facility will be viewed at a middleground distance (0.5 to 5 miles).
38 Applicant explains that at a middleground distance, viewers would potentially be able to

~~¹¹⁸ The ZVI analysis does not account for potential visual impacts from two new 50-75 foot utilities poles that will support transmission lines connecting the switchyard substation to existing transmission lines. Because these poles would be of similar height and immediately adjacent to existing transmission infrastructure, the Department recommends that the poles would have a minimal contribution to visual impacts.~~

¹¹⁹ US Fish and Wildlife Service. “Cold Springs National Wildlife Refuge.” Accessed June 27, 2022 at: <https://www.fws.gov/refuge/cold-springs>

1 distinguish individual forms within the facility and that the texture and color of facility
2 components would be identifiable but would be muted and would lack detail.¹²⁰ Applicant
3 further explains that in portions of the refuge, views of the facility will be screened by
4 vegetation and structures. In the portions of the refuge where the proposed facility would be
5 visible, it would be viewed in context with existing urban and industrial development and would
6 not be a prominent feature in the viewshed.¹²¹

7
8 The proposed facility may be visible from portions of the Cold Springs National Wildlife Refuge
9 but impacts to views from the refuge would be mitigated by distance and screening by
10 vegetation and existing structures. Where visible, the proposed facility would be viewed in
11 context with existing urban and industrial development and would not be visually dominant
12 within the landscape. Further, the National Wildlife Refuge (NWR), is managed for preserving
13 and breeding grounds for native birds, which would be precluded by the construction and
14 operation of the facility. Based on the limited visibility, viewing distance, and low visual
15 contrast, and the management directive for the NWR, the Department recommends the
16 Council find that visual impacts of the facility on Cold Springs National Wildlife Refuge would be
17 less than significant.

18
19 *Power City Wildlife Area*

20
21 The Power City Wildlife Area is a 100-acre state wildlife area situated immediately adjacent to
22 Highway 395 between Hermiston and Power City.¹²² The Power City Wildlife Area is located
23 approximately 6-miles from the proposed facility.

24
25 Applicant explains that at a background distance (greater than 5 miles), the shape and size of
26 solar arrays may be visible but will create limited contrast and will lack texture and
27 distinguishable color. Applicant further explains that existing views from the Power City Wildlife
28 Area include existing industrial and urban development, highways, and transmission lines.¹²³

29
30 The proposed facility may be visible from portions of the Power City Wildlife Area but impacts
31 to views from the refuge would be mitigated by distance and screening by vegetation and
32 existing structures. Where visible, the proposed facility would be viewed in context with
33 existing urban and industrial development and would not be visually dominant within the
34 landscape. Based on the limited visibility, viewing distance, and low visual contrast, the
35 Department recommends the Council find that visual impacts of the facility on the Power City
36 Wildlife Area would be less than significant.

37
38 *Hat Rock State Park*

39

¹²⁰ Exhibit L, Section 4.4.1

¹²¹ Exhibit L, Section 4.4.2.1

¹²² ODFW. Columbia Basin Wildlife Areas Management Plan. December 2021. pg. 7

¹²³ Exhibit L, Section 3.0, Table L-1.

1 Hat Rock State Park is located nine miles east of the city of Umatilla off U.S. Highway 730. The
2 park lies on the south shore of Lake Wallula behind McNary Dam on the Columbia River.¹²⁴ The
3 park is named for a distinctive 70-foot tall basalt formation located in the northern portion of
4 the park. A trail provides park users with access to the base of Hat Rock but access to the
5 formation itself is restricted. Hat Rock, along with two other Basalt formations within the park
6 and the wetlands and islands to the north of the Park boundary are designated as primary
7 protection areas in part for their scenic values.¹²⁵

8
9 Hat Rock State Park is located 6.3 miles to the north of the proposed facility site. Applicant
10 explains that at a background distance (greater than 5 miles), the shape and size of solar arrays
11 may be visible but will create limited contrast and will lack texture and distinguishable color.¹²⁶
12 Applicant explains that the proposed facility may only be visible from higher elevation areas
13 within the park and would not be visible from developed use areas. Applicant further explains
14 that existing views from Hat Rock State Park in the direction of the proposed facility include
15 existing industrial and urban development, highways, and transmission lines.¹²⁷

16
17 Visibility of the proposed facility from Hat Rock State Park would be limited, and where visible,
18 impacts would be mitigated by distance and screening by vegetation and existing structures.
19 Where visible, the proposed facility would be viewed in context with existing urban and
20 industrial development and would not be visually dominant within the landscape. Based on the
21 limited visibility, viewing distance, and low visual contrast, the Department recommends the
22 Council find that visual impacts of the facility on Hat Rock State Park would be less than
23 significant.

24
25 *Echo Meadows Site of the Oregon Trail ACEC*

26
27 The Echo Meadows Site is a 320-acre site managed by the Bureau of Land Management. The
28 site is located off of State Highway 320 west of the City of Echo. The site includes an
29 interpretive site and a path to a one-mile long stretch of wagon swales created by emigrants on
30 the Oregon Trail.

31
32 The Echo Meadows Site is located approximately 6.8 miles to the southwest of the proposed
33 facility. Applicant explains that at a background distance (greater than 5 miles), the shape and
34 size of solar arrays may be visible but will create limited contrast and will lack texture and
35 distinguishable color.¹²⁸ Applicant further explains that existing views from the Echo Meadows
36 Site in the direction of the proposed facility include existing agricultural structures, transmission

¹²⁴ Oregon Parks and Recreation Department. "Hat Rock State Park." Accessed 6/30/2022 at:
<https://stateparks.oregon.gov/index.cfm?do=park.profile&parkId=12>

¹²⁵ Oregon Parks and Recreation Department. Hat Rock State Park Master Plan. 1983. Accessed 6/30/2022 from:
<https://www.oregon.gov/oprd/PRP/Documents/PLA-Adopted-Hatrock-1983.pdf>

¹²⁶ Exhibit L, Section 4.4.1

¹²⁷ Exhibit L, Section 3.0, Table L-1.

¹²⁸ Exhibit L, Section 4.4.1

1 lines, and highways.¹²⁹ Applicant states that the primary orientation of visitors away from the
2 proposed facility site will further mitigate visual impacts; however, the Department does not
3 find this argument to be compelling given the northwesterly orientation of the access path
4 from the interpretive site to the Oregon Trail segments.

5
6 Visibility of the proposed facility from the Echo Meadows Site would be limited, and where
7 visible, impacts would be mitigated by distance and screening by topography, vegetation, and
8 existing structures. Where visible, the proposed facility would be viewed in context with
9 existing agricultural development and other infrastructure, and would not be visually dominant
10 within the landscape. Based on the limited visibility, viewing distance, and low visual contrast,
11 the Department recommends the Council find that visual impacts of the facility on the Echo
12 Meadows Site would be less than significant.

13
14 *McNary National Wildlife Refuge*

15
16 The McNary National Wildlife Refuge consists of approximately 15,666 acres of refuge lands
17 administered by the US Fish and Wildlife Service. The majority of refuge lands are located in
18 Washington State and are outside of the 20-mile analysis area for Protected Areas. The Juniper
19 Canyon and Stateline Units of the refuge, which are located within the analysis area, consist of
20 approximately 1692 acres of isolated parcels extending along the southern bank of the
21 Columbia River in both Oregon and Washington.

22
23 The Applicant's ZVI analysis indicates that the proposed facility would only be potentially visible
24 from limited areas within the McNary Wildlife Refuge and this visibility would likely be further
25 reduced by vegetation and existing development.

26
27 The proposed facility would only be visible from isolated parcels within the McNary National
28 Wildlife Refuge, and where visible, impacts from the proposed facility would be mitigated by
29 distance and screening by vegetation and existing structures. Based on the limited visibility, the
30 Department recommends the Council find that visual impacts of the facility on the McNary
31 National Wildlife Refuge would be less than significant.

32
33 *Potential Visual Impacts of Emissions*

34
35 Operation of the proposed facility is not expected to result in significant emissions.
36 Construction of the proposed facility could result in some dust emissions during road
37 construction, foundation installation, final cleanup, reclamation, and restoration. Applicant
38 proposes to implement dust control measures consistent with the best management practices
39 identified in Attachment I-1: Erosion Sediment Control Measures, attached to this order and
40 discussed further in Section IV.D., Soil Protection.

41
42 *Potential Noise Impacts (Construction and Operation)*

¹²⁹ Exhibit L, Section 3.0, Table L-1.

1
2 Potential noise impacts from construction and operation of the proposed facility are discussed
3 in Section IV.Q.1 of this Order. Noise from construction and operation of the proposed facility
4 will not be distinguishable from background noise levels at a distance of 2 miles from the
5 proposed facility site. Because all protected areas are located more than 2 miles from the
6 proposed site, the Department recommends the Council find that the construction and
7 operation of the proposed facility are not likely to result in significant noise impacts to any
8 protected areas.

9

10 *Traffic Impacts (Construction and Operation)*

11

12 The primary transportation routes for workers and deliveries to the proposed facility site
13 include Interstate 82 (I-82) and Interstate 84 (I-84). U.S. Route 395 (US-395) and sections of US-
14 730, County Road 1000, and S. Edwards Road, which provides access to the site, could also be
15 affected by increased traffic during construction of the proposed facility.

16

17 As discussed in Section IV.M., *Public Services*, of this order, the applicant estimates that there
18 will be approximately 45 round trips to the site for truck deliveries and 240 round trips to the
19 site by worker vehicles per day on average, with worker traffic increasing to 400 round trips per
20 day during peak construction periods. This volume of traffic is not expected to significantly
21 affect travel times on the primary transportation routes. Traffic during operation of the
22 proposed facility is expected to be minimal.

23

24 Most protected areas in the analysis area are located to the north of the proposed site and are
25 primarily accessed by I-84, I-82, US-730 and Oregon Route 207. Travel to these areas is not
26 expected to be significantly impacted by traffic associated with construction of the proposed
27 facility. The two exceptions are the Power City Wildlife Area and the Oregon State University
28 Agriculture Research and Extension Center at Hermiston, which are both located along US-395.
29 Increased traffic could result in some short-term delays due to increased traffic on US-395, but
30 that these delays would be intermittent and temporary in nature.

31

32 Applicant also argues that traffic impacts to these protected areas would be less than
33 significant because there may be alternate routes to access the site but does not explain how or
34 when travelers would be informed that alternate routes are advised. As a result, the
35 Department does not recommend that the Council rely on the availability of alternate routes as
36 a mitigating factor.

37

38 The applicant is required to enter into a Road Use Agreements with Umatilla County, and as
39 described in Recommended Public Services Condition 1 and 2, would be required to implement
40 best management practices to minimize traffic impacts due to construction, traffic congestion,
41 flagging needs, road closures, and large equipment and deliveries. The BMPs are further
42 described in the draft Traffic Management Plan provided as ASC Attachment U-1. The Road Use
43 Agreement would also provide for the mitigation of any damage to roads that occurs during
44 construction.

1
2 Traffic associated with construction of the proposed facility could result in intermittent, short-
3 term delays for visitors to the Power City Wildlife Area and the Oregon State University
4 Agriculture Research and Extension Center at Hermiston. These impacts will be minimized
5 through the implementation of a Traffic Management Plan, as required by Recommended
6 Public Services Condition 1 and 2. Based on the intermittent and temporary nature of the
7 impacts and taking the proposed mitigation into account, the Department recommends that
8 the construction and operation of the proposed facility is not likely to result in significant traffic
9 impacts to any Protected Areas.

10
11 *Water Use and Wastewater Disposal (Construction and Operation)*

12
13 As discussed further in Section IV.Q.3., *Water Rights*, the applicant estimates that
14 approximately 12.8 million gallons of water will be required for the construction of the
15 proposed facility, and that the proposed facility will use an additional 1.65 million gallons of
16 water per year for sanitation and washing solar modules.

17
18 Some protected areas within the analysis area, including the Cold Springs National Wildlife
19 Refuge, are protected for wildlife habitat that is dependent on surface water availability and
20 could be impacted by additional withdrawals or diversions. The applicant has represented that
21 this would be obtained from the City of Hermiston, which has existing water rights that are
22 sufficient to meet this demand, and that no additional ground or surface water withdrawals will
23 be needed for water use at the site.

24
25 As described in Section IV.D., *Soil Protection*, construction of roads, foundations, and other
26 related supporting facilities would be Applicant proposes to implement dust control measures
27 consistent with the best management practices identified in Attachment I-1: Erosion Sediment
28 Control Measures, attached to this order. In addition, the proposed facility is not expected to
29 discharge into waters of the state that would directly or indirectly connect to a protected
30 waterway.

31
32 The applicant does not propose to construct or operate a septic system or other water disposal
33 system for industrial water or sewage at the site. Sanitation wastewater will be contained in
34 portable toilets and disposed of by a licensed contractor. Because no industrial or sanitation
35 wastewater will be disposed at the site no water quality impacts from these types of
36 wastewater are expected.

37
38 Because no additional ground or surface water withdrawals are required for the construction
39 and operation of the proposed facility, stormwater discharges would be minimized by best
40 management practices, and no other wastewater discharges are expected, the Department
41 recommends that the construction and operation of the proposed facility is not likely to result
42 in significant adverse impacts to water availability or water quality at any protected areas.

1 **Conclusions of Law**
2

3 Based on the foregoing recommended findings, the Department recommends the Council
4 conclude that the design, construction and operation of the proposed facility would not be
5 likely to result in significant adverse impacts to any protected areas, in compliance with the
6 Council’s Protected Area standard.
7

8 **IV.G Retirement and Financial Assurance: OAR 345-022-0050**
9

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

11
12 *(1) The site, taking into account mitigation, can be restored adequately to a useful, non-*
13 *hazardous condition following permanent cessation of construction or operation of the*
14 *facility.*

15
16 *(2) The applicant has a reasonable likelihood of obtaining a bond or letter of credit in a*
17 *form and amount satisfactory to the Council to restore the site to a useful, non-*
18 *hazardous condition.*
19

20 **Findings of Fact**
21

22 The Retirement and Financial Assurance standard requires a finding that the proposed facility
23 site can be restored to a useful, non-hazardous condition at the end of the facility’s useful life,
24 should either the applicant (certificate holder) stop construction or should the facility cease to
25 operate. In addition, it requires a demonstration that the applicant can obtain a bond or letter
26 of credit in a form and amount satisfactory to the Council to restore the site to a useful, non-
27 hazardous condition.
28

29 *Restoration of the Site Following Cessation of Construction or Operation*
30

31 OAR 345-022-0050(1) requires the Council to find that the facility site can be restored to a
32 useful non-hazardous condition at the end of the facility’s useful life, or if construction of the
33 facility were to be halted prior to completion. In ASC Exhibit X, the applicant estimates the
34 proposed facility’s useful life as 30 years.¹³⁰
35

36 The applicant is obligated to retire the proposed facility upon permanent cessation of
37 construction or operation (or upon retirement). Below, the Department provides a description
38 of the decommissioning activities associated with retiring the proposed facility and each

¹³⁰ WESAPPD0c3-24 ASC Exhibit X Retirement 2022-09-28, Section 2.0. The applicant indicates the proposed facility could be repowered with more efficient equipment over time so operation of the proposed facility could be longer than 30 years. Any major repowering may be subject to an amendment determination and the EFSC amendment process under OAR Chapter 345, Division 027.

1 proposed facility component that the applicant would deploy to restore the site to a useful,
2 non-hazardous condition:¹³¹

3
4 Mobilization and demobilization of equipment and facilities: Includes mobilization (prior to
5 decommissioning) and demobilization (upon completion) of on-site construction
6 management/storage facilities and equipment used for decommissioning. Also includes site set
7 up and cleanup of facilities prior to and after decommissioning.

8
9 Mobilization and demobilization of management: Site support including medical and office
10 supplies, on-site field management including superintendent and engineers.

11
12 Operations and Maintenance Enclosure: Demolish (demo) structure, load materials and truck
13 dispose/recycle metal. Remove foundation/gravel to subgrade or deeper by excavation, load
14 concrete/gravel into trucks and transport/dispose of materials.¹³²

15
16 Substation: Disconnect transformers then separate, remove, transport and dispose of oil.
17 Dismantle and cut transformers then load truck and dispose. Remove/demo control building,
18 truck and dispose. Remove underground utilities. Excavate and remove foundations to
19 subgrade or deeper then load, truck/transport and dispose concrete from foundations. Remove
20 fence.

21
22 Switchyard: (same as Substation) Disconnect transformers then separate, remove, transport
23 and dispose of oil. Dismantle and cut transformers then load truck and dispose. Remove/demo
24 control building, truck and dispose. Remove underground utilities. Excavate and remove
25 foundations to subgrade or deeper then load, truck/transport and dispose concrete from
26 foundations. Remove fence.

27
28 Interconnection facility: Cut and lower poles and transmission towers (structure removal),
29 remove overhead cables, load trucks and dispose. Remove foundations to subgrade or deeper
30 with excavation, then load truck, transport and dispose concrete from foundations.

31
32 Battery facilities: Disconnect, remove, transport and dispose/recycle batteries. Demo and
33 remove structures for disposal or recycling.

34
35 Solar Facility: Disconnect electrical from panels and inverters and transformers. Dismantle and
36 remove racking system, remove piers including pier foundations to depth with excavation,
37 concrete loaded and transported for disposal. Panels transported for disposal or recycling.

¹³¹ Tasks and descriptions were derived from Department evaluation of ASC Exhibit X, Attachment X-1. Project Retirement and Restoration Cost Estimate line items and subtasks. WESAPPD03-24 ASC Exhibit X Retirement 2022-09-28.

¹³² To allow continued use of the land for agricultural or other purposes deemed appropriate at the time of decommissioning purposes, all subsurface features including underground collector lines and concrete foundations associated with the O&M, Substation, Solar, Battery, and Switchyard may need to be removed to a minimum of 3 feet below ground surface or as agreed with the landowner.

1 Remove external fence line. Underground electrical collector lines would remain buried for
2 sections at 3 feet or deeper.

3
4 Roads: Facility roads would be used to allow the decommissioning contractor to separate the
5 solar modules from the pole, and directly load the modules into a truck or roll-off container for
6 off-site disposal or recycling. After facility components are removed, gravel would be removed
7 from facility roads and then roads would be decompacted, backfilled as necessary, and
8 restored. Decompaction includes discing and regrading.

9
10 Re-seeding and Site Restoration: Roads, locations of facility components, and areas disturbed
11 by construction would be spot graded and re-seed with native vegetation as per revegetation
12 plan and retirement plan.

13
14 The Department reviewed the above-summarized tasks and actions with the more-detailed
15 line-item breakdown presented in ASC Exhibit X-1 and compared those details against the
16 information presented in ASC Exhibit B (Project Description), C (Project Location – Disturbance)
17 and G (Materials Inventory). Based on review of these materials, the Department affirms that
18 the information is consistent across relevant exhibits. For this reason, the Department
19 recommends Council find that the tasks and actions accurately represent facility
20 decommissioning and site restoration.

21
22 As provided in ASC Exhibit B and I, and reflected in recommended Soil Protection Condition 4, 5,
23 7 and 8 in Section IV.D., *Soil Protection*, the applicant commits to developing and implementing
24 a Spill, Prevention, Control and Countermeasure Plan (SPCC), which would comply with 40 CFR
25 112 (Oil Pollution Prevention), including the safe cleanup of hazardous materials.¹³³ This
26 applicant proposed plan, recommended by the Department as site certificate conditions, would
27 also minimize impacts to the site and support the applicant’s ability to restore the site to a
28 useful, nonhazardous condition.

29
30 The Council’s rules include several mandatory site certificate conditions, which are addressed
31 below, relating to the obligation of a certificate holder to prevent the development of
32 conditions on the site that would preclude restoration of the site and requiring the certificate
33 holder to obtain Council approval of a retirement plan in the event that the facility ceases
34 construction or operation:

35
36 **Retirement and Financial Assurance Condition 1 (RET)**: The certificate holder shall prevent
37 the development of any conditions on the site that would preclude restoration of the site to
38 a useful, non-hazardous condition to the extent that prevention of such site conditions is
39 within the control of the certificate holder.

40 [Mandatory Condition OAR 345-025-0006(7)]
41

¹³³ WESAPPD03-1 ASC Exhibit B Project Description 2022-10-22, Section 2.0.

1 **Retirement and Financial Assurance Condition 2 (RET):** The certificate holder shall retire
2 the facility if the certificate holder permanently ceases construction or operation of the
3 facility. The certificate holder shall retire the facility according to a final retirement plan
4 approved by the Council, as described in OAR 345-027-0110. The certificate holder shall pay
5 the actual cost to restore the site to a useful, nonhazardous condition at the time of
6 retirement, notwithstanding the Council’s approval in the site certificate of an estimated
7 amount required to restore the site.

8 [Mandatory Condition OAR 345-025-0006(9)]
9

10 **Retirement and Financial Assurance Condition 3 (RET):** If the Council finds that the
11 certificate holder has permanently ceased construction or operation of the facility without
12 retiring the facility according to a final retirement plan approved by the Council, as
13 described in OAR 345-027-0110, the Council shall notify the certificate holder and request
14 that the certificate holder submit a proposed final retirement plan to the Department
15 within a reasonable time not to exceed 90 days. If the certificate holder does not submit a
16 proposed final retirement plan by the specified date, the Council may direct the
17 Department to prepare a proposed final retirement plan for the Council’s approval. Upon
18 the Council’s approval of the final retirement plan, the Council may draw on the bond or
19 letter of credit described in OAR 345-025-0006(8) to restore the site to a useful,
20 nonhazardous condition according to the final retirement plan, in addition to any penalties
21 the Council may impose under OAR Chapter 345, Division 29. If the amount of the bond or
22 letter of credit is insufficient to pay the actual cost of retirement, the certificate holder shall
23 pay any additional cost necessary to restore the site to a useful, nonhazardous condition.
24 After completion of site restoration, the Council shall issue an order to terminate the site
25 certificate if the Council finds that the facility has been retired according to the approved
26 final retirement plan.

27 [Mandatory Condition OAR 345-025-0006(16)]
28

29 In Section IV.B., *Organizational Expertise* of this order, the Department recommends that the
30 Council find that the applicant has the organizational expertise to construct, operate, and retire
31 the facility, in compliance with the standard. In addition, the Department recommends Council
32 find that the applicant would satisfy the requirements of the Soil Protection, Fish and Wildlife
33 Habitat, and Waste Minimization standards (Sections IV.D., IV.H., and IV.N. of this order,
34 respectively). Each of those sections describe conditions designed to minimize adverse impacts
35 on the surrounding land from construction and operation of the proposed facility.
36

37 Based on compliance with the above-referenced mandatory conditions and recommended
38 conditions as presented in Section IV.D. *Soil Protection*, and the applicant’s assessment of
39 decommissioning tasks and actions, the Department recommends the Council find that the site
40 of the proposed facility could be restored adequately to a useful, non- hazardous condition
41 following permanent cessation of construction or operation.
42

43 *Methods and Assumptions for Decommissioning Cost Estimate*
44

1 OAR 345-022-0050(2) requires the Council to find that the applicant has demonstrated a
2 reasonable likelihood of obtaining a bond or letter of credit in a form and amount necessary to
3 restore the site of the proposed facility to a useful non-hazardous condition. A bond or letter of
4 credit in a form and amount satisfactory to Council provides a site restoration remedy to
5 protect the State of Oregon and its citizens if the applicant (certificate holder) fails to perform
6 its obligation to restore the site. The bond or letter of credit must remain in force until the
7 applicant (certificate holder) has fully restored the site. OAR 345-025-0006(8) establishes a
8 mandatory condition, which ensures compliance with this requirement (see Retirement and
9 Financial Assurance Condition 4 below).

10
11 ASC Exhibit X, Attachment X-1, details the applicant’s cost estimate to restore the site to a
12 useful, nonhazardous condition. The decommissioning cost estimate was generated by Mr.
13 Gary Murdock an Engineer and Cost Estimator at Tetra Tech with 15 years’ experience in
14 generating cost estimates for commercial energy facilities, including approved EFSC wind and
15 solar facilities.¹³⁴ The methods and assumptions that the applicant relied on to generate the
16 decommissioning estimate are:

17
18 Labor, Equipment, and Unit Cost Rate Methods and Assumptions:

- 19 • Labor costs developed by reviewing U.S. Department of Labor wage determinations
20 prevalent to the geographic area of the proposed facility and rates published by RS
21 Means data.¹³⁵ An average rate includes base wage, fringe, and payroll tax liability. The
22 final rate used in the estimate is an average of 40 hours of standard time and 10 hours
23 of overtime per week, assuming a 50-hour work week during construction activities.
- 24 • Production rates established using applied professional experience and published
25 standards including RS Means data.¹³⁶
- 26 • Equipment rates developed by reviewing rates published by RS Means and historical
27 vendor quotes associated with the location of the proposed facility. Rates include fuel,
28 maintenance, and wear and tear of ground-engaging components. Rates utilized assume
29 the use of rental equipment, which is generally more expensive than contractor-owned
30 equipment.
- 31 • Unit costs developed by establishing the labor, equipment, and production rate required
32 for each individual task using RS Means and the estimator’s experience.¹³⁷

¹³⁴ WESAPDoc12 Applicant Responses to RAIs Exhb E, I, W and X_Combined 2022-06-01; Exhibit X_RAI X-11_Murdock Gary Resume.

¹³⁵ RS Means provides cost estimating software for the construction industry where construction costs are comprised of material, labor and/or equipment prices with more than 92,000-line items and cost engineers spend more than 30,000 hours researching and validating the costs every year.
<https://www.rsmeans.com/info/contact/about-us> Accessed 06-10-2022.

¹³⁶ Production rates in estimating refer to time to perform a task. For example, the production rate for Solar Panel Removal is assumed to be 20 panels per laborer per hour. WESAPDoc3-1 ASC Exhibit B Project Description 2022-10-22, Section 4.2.

¹³⁷ The applicant provided different unit rates for the removal of the solar racking posts – one where posts have concrete backfill and one where there is no concrete backfill in Attachment W-1. To generate a more conservative estimate, the applicant applied the higher unit rate (where concrete must be removed at each post) was applied to all racking posts but one.

1 Decommissioning Task Methods and Assumptions:

- 2 • Mobilization and demobilization costs reflect the anticipated cost to mobilize
3 equipment, facilities and workers to the facility site, assuming the work would
4 performed by local contractors. This amount does not include the frontloading of costs
5 from other tasks.
- 6 • Project Site Support includes costs for field management during
7 construction/decommissioning activities which includes a Superintendent, a Health and
8 Safety Representative, and two Field Engineers. Costs for temporary facilities includes
9 one office trailer and two Conex storage units, along with portable toilets, first aid
10 supplies, and utilities.
- 11 • The contractor’s Home Office, Project Management, Overhead, and Fee costs developed
12 based on an average and applied to the estimate, added as 5 percent for Home Office
13 and Project Management, and 13 percent for Overhead and Fee.
- 14 • Roads would be restored consistent with the approved retirement plan so that they
15 become a part of the natural surroundings and are no longer recognizable or usable as a
16 road. On private lands, roads would be restored or left in place at the request of the
17 current landowner. The cost for restoration of roads assumes that all roads would be
18 decompacted and reseeded.
- 19 • Restoration is estimated on a unit cost basis, priced by task, and follows the progression
20 of work from start to finish. Several other miscellaneous costs have been approximated,
21 including permits, engineering, signage, fencing, traffic control, utility disconnects, etc.

22
23 *Estimated Cost of Site Restoration*

24
25 As presented in Table 4: *Facility Decommissioning Tasks and Cost Estimate*, the
26 decommissioning cost estimate totals \$4,734,498 million (Q3 2022 dollars), prior to application
27 of the Department’s recommended contingencies, as further described below.

28
29
30
31
32
33
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35
36
37

Table 4: Facility Decommissioning Tasks and Cost Estimate

Task or Component	Quantity	Unit Cost (\$)¹	Unit	Estimate (\$)
Mobilization / Demobilization [1.1]				
<i>Equipment Mob</i>	1	61,200.00	Lump Sum ⁴	\$61,200.00
<i>Site Facilities</i>	1	2,200.00	Lump Sum ⁴	\$2,200.00
<i>Crew Mob & Site Setup</i>	3	12,065.72	Day	\$36,197.16
<i>Crew Demob & Site Cleanup</i>	2	12,065.72	Day	\$24,131.44
<i>Subtotal =</i>				\$123,728.60
Project Site Support [1.2] Site Facilities [1.2.1]	3	1,305.00	Month	\$3,915.00
Field Management [1.2.2]	3	53,947.28	Week	\$161,841.84
O&M Building Removal [1.3]				
<i>Structure Demo</i>	1	867.41	Lump Sum ⁴	\$867.41
<i>Remove Foundations To Subgrade³</i>	11	27.02	Cubic Yd.	\$297.22
<i>Trucking</i>	1	1,375.00	Each	\$1,375.00
<i>Waste Material Disposal</i>	4	45	Ton	\$180.00
<i>Subtotal =</i>				\$2,719.63
Substation & Switchyard Removal and Disposal [1.4.1 & 1.4.2]				
<i>Fence Removal</i>	2	1,202.19	Day	\$2,404.38
<i>Transformer Removal</i>	2	119,639.33	Each	\$239,278.66
<i>Remove Control Building</i>	2	2,432.59	Each	\$4,865.18
<i>UG Utility & Ground Removal</i>	4	1,202.19	Day	\$4,808.76
<i>Remove Foundations to Subgrade³</i>	1000	27.02	Cubic Yd.	\$27,020.00
<i>Misc. Material Disposal</i>	2	1,825.00	Lump Sum ⁴	\$3,650.00
<i>Restore Yard (Incl. backfill, topsoil, reveg)</i>	2	31,301.73	Each	\$62,603.46
<i>Subtotal =</i>				\$344,630.44
Interconnection Facility [1.5]				
<i>Structure Removal</i>	2	4,255.53	Each	\$8,511.06
<i>Remove Foundations To Subgrade³</i>	2	2,321.28	Each	\$4,642.56
<i>Subtotal =</i>				\$13,153.62

Table 4: Facility Decommissioning Tasks and Cost Estimate

Task or Component	Quantity	Unit Cost (\$)¹	Unit	Estimate (\$)
DC Storage System Removal [1.6]				
<i>Battery Removal & Disposal</i>	70	2,497.10	MW	\$174,797.00
<i>Structure & Components Removal</i>	70	951.7	MW	\$66,619.00
<i>Subtotal =</i>				\$241,416.00
Solar Array Removal [1.7]				
<i>Fence Removal</i>	15,400.00	1.19	Linear Feet	\$18,326.00
<i>Inverter / Transformer Removal</i>	25	5,089.67	Each	\$127,241.75
<i>Remove Foundations To Subgrade³</i>	25	2,594.35	Each	\$64,858.75
<i>Solar Panel Removal & Disposal</i>	180,000.00	6.00	Each	\$1,080,000.00
<i>Solar Rack (Trackers) & Post Removal w/ Concrete</i>	1	1,142,547.10	Lump Sum⁴	\$1,142,547.10
<i>Subtotal =</i>				\$2,432,973.60
Road Removal and Site Restoration/Revegetation [1.8]				
<i>Decompact & Remove Gravel From Roads</i>	18,100.00	2.29	Linear Feet	\$41,449.00
<i>Import Backfill/Topsoil</i>	2,500.00	20.00	Cubic Yd.	\$50,000.00
<i>Spot Grade Disturbed Areas</i>	324	268.20	Acre	\$86,896.80
<i>Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction</i>	324	500.00	Acre	\$162,000.00
<i>Subtotal =</i>				\$340,345.80
West End Solar Project Max Potential Decommissioning Cost (Cost) Subtotal =				\$3,664,724.53
Decommissioning Subtotal for Wind and Solar (94% of Total Cost)				\$3,423,308.53
Decommissioning Total for Battery (6% of Total Cost)				\$241,416.00
Applicant Applied Contingencies [1.9]				
<i>Home Office, Project Management (5% Of Cost)</i>	5		Percent	\$183,236.23
<i>Contractor OH & Fee (13% Of Cost)</i>	13		Percent	\$476,414.19
Applicant Contingency Subtotal =				\$659,650.42

Table 4: Facility Decommissioning Tasks and Cost Estimate

Task or Component	Quantity	Unit Cost (\$)¹	Unit	Estimate (\$)
Breakdown of Applicant Contingencies by Component				
Total Applicant Contingencies for Solar (94% of total contingencies)				\$620,071.39
Total Applicant Contingencies for Battery (ESS) (6% of total contingencies)				\$39,579.02
Subtotal of Cost and Applicant Contingencies (Q2 2021 Dollars) - <i>Rounded to nearest \$1</i>				\$4,324,374.95
Subtotal of Cost and Applicant Contingencies for Solar (94% of total contingencies)				\$4,043,379.92
Subtotal of Cost and Applicant Contingencies for Battery (ESS) (6% of total contingencies)				\$280,995.02
Subtotal of Cost and Applicant Contingencies (Adjusted - Q3 2022 Dollars)²				\$4,687,622.44
<i>Performance Bond</i>	1		Percent	\$46,876.22
Adjusted Gross Cost				\$4,734,498.67
Department Applied Contingencies				
<i>Department Administration and Project Management</i>	10		Percent	\$473,449.87
<i>Future Development Contingency</i>	10		Percent	\$445,042.87
	20 (ESS)		Percent	\$56,813.98
	<i>subtotal</i>			\$501,856.86
ODOE Contingency Subtotal =				\$975,306.73
Total Site Restoration Cost with Department Adjusted Contingencies (Q3 2022 Dollars) <i>Rounded to nearest \$1</i>				\$5,709,805
Notes:				
1. All unit costs are in Q2 2021 Dollars.				
2. Adjustment factor from Q2 2021 Dollars to Q3 2022 Dollars is 1.084.				
Source: WESAPDoc3-24 ASC Exhibit X Retirement 2022-09-28. Attachment Y-1 for detailed breakdown of tasks, actions and unit costs for the sum total costs presented in this table.				
3. To allow continued use of the land for agricultural or other purposes deemed appropriate at the time of decommissioning purposes, all subsurface features including underground collector lines and concrete foundations associated with the O&M, Substation, Solar, Battery, and Switchyard may need to be removed to a minimum of 3 feet below ground surface or as agreed with the landowner.				

Table 4: Facility Decommissioning Tasks and Cost Estimate

Task or Component	Quantity	Unit Cost (\$)¹	Unit	Estimate (\$)
<u>4. Tasks associated with a Lump Sum unit cost may be calculated using a fraction (in decimal form) of the actual quantities constructed or by using the more detailed break down of unit costs associated with the Lump Sum task identified in the cost estimating worksheet in ASC Exhibit X, Attachment X-1.</u>				

1

1 As presented in Table 4: *Facility Decommissioning Tasks and Cost Estimate*, the Department
2 recommends Council add a 10 percent contingency cost for both the administrative and project
3 management expenses, and a future development contingency (less the decommissioning
4 estimate of the ESS/DC Storage System, which the Department recommends have a 20 percent
5 contingency be applied). A performance bond of 1 percent is also recommended to be applied.
6 For all types of energy facilities, the subtotal of line-item costs, including contractor’s overhead,
7 profit and insurance costs, and specialty contract costs is increased by one percent to account
8 for the cost of a performance bond that would be posted by the contractor as assurance that
9 the work would be completed as agreed, if the proposed facility needed to be retired absent
10 the applicant.

11
12 The 10 percent contingency for administrative and management expenses is recommended to
13 cover the anticipated direct costs borne by the State in the course of managing site restoration
14 and would include the preparation and approval of a final retirement plan, obtaining legal
15 permission to proceed with demolition of the facility, legal expenses for protecting the State’s
16 interest, preparing specification bid documents and contracts for demolition work, managing
17 the bidding process, negotiations of contracts, and other tasks. Consistent with recommended
18 Organizational Condition 3, the Department and Council reserve the right to adjust the
19 contingencies, as appropriate and necessary to ensure that costs to restore the site are
20 adequate to maintain health and safety of the public and environment, consistent with Council
21 standards.

22
23 The 10 percent future development contingency the Department recommends Council apply to
24 all tasks, actions and applicant contingencies, with the exception of the cost of the ESS conclude
25 that a 20 percent future development contingent is necessary to be applied to account for
26 uncertainty in the decommissioning estimate of the ESS/DC Storage System because, if site
27 restoration becomes necessary, it might be many years in the future where there is uncertainty
28 of continued adequacy of the retirement cost estimate. For all types of energy facilities, the
29 subtotal of line-item costs, including contractor’s overhead, profit and insurance costs, and
30 specialty contract costs is increased by one percent to account for the cost of a performance
31 bond that would be posted by the contractor as assurance that the work will be completed as
32 agreed.

33
34 Therefore, the Department recommends that Council find that \$5,709,805 million (Q3 2022
35 dollars) is a reasonable estimate of an amount satisfactory to restore the site to a useful,
36 nonhazardous condition.

37
38 *Ability of the Applicant to Obtain a Bond or Letter of Credit*

39
40 OAR 345-022-0050(2) requires the Council to find that the applicant has a reasonable likelihood
41 of obtaining a bond or letter of credit in a form and amount satisfactory to Council to restore
42 the proposed facility site to a useful non-hazardous condition. A bond or letter of credit
43 provides a site restoration remedy to protect the state of Oregon and its citizens if the applicant

1 (certificate holder) fails to perform its obligation to restore the site. The bond or letter of credit
2 must remain in force until the applicant (certificate holder) has fully restored the site.

3
4 As discussed in Section IV.B., *Organizational Expertise*, the applicant, EE West End Solar LLC, is a
5 wholly owned subsidiary of Eurus Solar Holdings, LLC. Eurus Solar Holdings LLC is a wholly
6 owned subsidiary of Eurus Energy America, LLC. Eurus Energy America, LLC is a wholly owned
7 subsidiary of Eurus Energy America Corporation (EEAC- parent company). ASC Exhibit M,
8 Attachment M-2 is a letter from Sumitomo Mitsui Banking Corporation (SMBC), which indicates
9 that EEAC is a valued client of SMBC.¹³⁸ The letter continues to acknowledge the organizational
10 structure of Eurus Solar Holdings and that EE West End Solar LLC is the applicant for the
11 proposed facility and that the applicant may request a letter of credit up to \$5.8 million. SMBC
12 indicates that, because of its ongoing relationship with EEAC, there is a reasonable likelihood
13 that the financial institution would provide the letter of credit for the facility.

14
15 ASC Exhibit M, Attachment M-1 includes a letter from Senior Legal Counsel for EEAC, indicates
16 that he reviewed the original or certified copies of books, records, LLC records, and certificates
17 of public officials to support his professional opinion that the applicant has the legal authority
18 to construct and operate the proposed facility, without violating its articles of incorporation
19 covenants, or similar agreements.

20
21 The Department reviewed the legal opinion and SMBC financial assurance letter which are
22 provided in the ASC under the informational requirements under OAR 345-021-0010(1). These
23 documents, combined with the performance guarantee agreement to be executed by the
24 applicant and its parent company prior to construction (Organizational Expertise Condition 1)
25 supporting evidence under the Council’s Retirement and Financial Assurance standard and
26 Organizational Expertise standard and are largely consistent with similar letters historically
27 reviewed and approved by Council under these rules.

28
29 Based upon the Department’s review of the SMBC letter and applicant’s legal counsel opinion,
30 the Department recommends that Council find that the applicant has demonstrated a
31 reasonable ability to obtain a bond or letter of credit in a form and amount recommended be
32 considered satisfactory by Council.

33
34 OAR 345-025-0006(8) establishes a mandatory condition that must be imposed in all site
35 certificates.¹³⁹ This condition is imposed, based on the decommissioning amount recommended
36 by the Department to be considered satisfactory by Council, per below:

37
38 **Recommended Retirement and Financial Assurance Condition 4 (PRE):** Before
39 beginning construction of the facility or a facility component, the certificate holder shall

¹³⁸ At its January 28, 2022, Council added and approved SMBC as an EFSC-approved financial institution.

WESAPDoc8 EFSC Meeting-Item-B-Annual-Financial-Assurance-Update-Staff-Report and Mins 2022-01-28

¹³⁹ OAR 345-025-0006(8) Before beginning construction of the facility, the certificate holder must submit to the State of Oregon, through the Council, a bond or letter of credit in a form and amount satisfactory to the Council to

1 submit to the State of Oregon, through the Council, a bond or letter of credit naming
2 the State of Oregon, acting by and through the Council, as beneficiary or payee. The
3 total bond or letter of credit amount for the facility is \$5.7 million dollars (Q3 2022
4 dollars), to be adjusted to the effective date, and adjusted on an annual basis
5 thereafter, as described in sub-paragraph (b) of this condition:

- 6 a. The certificate holder may adjust the amount of the bond or letter of credit based
7 on the design configuration of the facility, or any phase of the facility, by applying
8 the unit costs presented in Table 4 of the Final Order on the ASC, and the
9 contingencies illustrated in Table 4 of the Final Order on the ASC and may further
10 make adjustments based on unit costs for task and actions presented in ASC Exhibit
11 X Attachment X-1. Any revision to the restoration costs should be adjusted to the
12 effective date as described in (b). Any modification to the unit costs presented in
13 Table 4 of the Final Order on the ASC are subject to review and approval by the
14 Council. The Department and Council reserve the right to adjust the contingencies,
15 as appropriate and necessary to ensure that costs to restore the site are adequate to
16 maintain health and safety of the public and environment.
17 b. The certificate holder shall adjust the amount of the bond or letter of credit using
18 the following calculation:
19 i. Adjust the amount of the bond or letter of credit (expressed in Q3 2022
20 dollars) to present value, using the U.S. Gross Domestic Product Implicit Price
21 Deflator, Chain Weight, as published in the Oregon Department of
22 Administrative Services' "Oregon Economic and Revenue Forecast" or by any
23 successor agency and using the third quarter 2022 index value and the
24 quarterly index value for the date of issuance of the new bond or letter of
25 credit. If at any time the index is no longer published, the Council shall select a
26 comparable calculation to adjust third quarter 2022 dollars to present value.
27 ii. Round the result total to the nearest \$1,000 to determine the financial
28 assurance amount.
29 c. The financial institution issuing of the bond or letter of credit must be on the
30 Council's pre-approved financial institution list. The bond or letter of credit form
31 approved by the Council is included as Attachment X-1 to the Final Order on ASC,.
32 [Mandatory Condition OAR 345-025-0006(8)]
33

34 **Conclusions of Law**

35
36 Based on the foregoing recommended findings of fact, and subject to compliance with the
37 recommended conditions, the Department recommends that the Council find that the
38 proposed facility would comply with the Council's Retirement and Financial Assurance
39 standard.
40

restore the site to a useful, non-hazardous condition. The certificate holder must maintain a bond or letter of credit in effect at all times until the facility has been retired. The Council may specify different amounts for the bond or letter of credit during construction and during operation of the facility.

1 **IV.H Fish and Wildlife Habitat: OAR 345-022-0060**

2
3 *To issue a site certificate, the Council must find that the design, construction and*
4 *operation of the facility, taking into account mitigation, are consistent with:*

5
6 *(1) The general fish and wildlife habitat mitigation goals and standards of OAR*
7 *635-415-0025(1) through (6) in effect as of February 24, 2017****

8
9 **Findings of Fact**

10
11 The analysis area for potential impacts to fish and wildlife habitat, as defined in the Project
12 Order, is the area within and extending ½-mile from the site boundary.

13
14 **IV.H.1 Department Evaluation of Applicant’s Desktop and Field Surveys**

15
16 Literature review and field studies were conducted in 2019-2020, based on consultation with
17 ODFW, and review of state (ODFW, ORBIC), federal (USFWS) and regional wildlife databases.

18
19 Surveys were conducted in 2019 and 2020, including protocol-level Washington Ground
20 Squirrel (WGS) surveys,¹⁴⁰ raptor nest surveys, habitat categorization, botanical and wetland
21 surveys.

22
23 WGS and raptor nest surveys were conducted from April 22-23 and May 21-22, 2019; and,
24 March 22 and May 9-10, 2020. The area for evaluation of potentially suitable WGS habitat
25 extends 1,000 feet from potential ground disturbance, including areas outside of the site
26 boundary, totaling approximately 388 acres. The area for evaluation of potentially active nest
27 substrates included the area within an extending 0.5-mile from the site boundary. Based on the
28 extent of existing active agriculture and permanent infrastructure (paved roads), there are
29 approximately 120 acres of potentially suitable WGS habitat within the survey area; 81 acres
30 were field surveyed and 39 acres were desktop surveyed due to landowner permission
31 restrictions on areas outside the site boundary. There were no observations of active WGS
32 burrows or colonies or any active or inactive raptor nests during the 2019-2020 surveys.¹⁴¹

33
34 Habitat categorization surveys included desktop review of USFWS, 2018 National Wetlands
35 Inventory data, 2001 National Hydrography Dataset, National Land Cover Database, 2016
36 Oregon Conservation Strategy, State Land and Water Resources Plans, 2018 Oregon
37 Biodiversity Information Center data, soil and land use data from Umatilla County. Based on the
38 results of the literature review, a field reconnaissance-level site visit was conducted on October

¹⁴⁰ Protocol-survey methods generally followed Morgan, R.L., and M. Nugent. 1999. Status and Habitat Use of the Washington Ground Squirrel (*Spermophilus washingtoni*) on State of Oregon Lands, South Boeig, Oregon in 1999. Report to the Oregon Department of Fish and Wildlife. WESAPDoc3-16 ASC Exhibit P Fish and Wildlife 2022-09-28. Attachment P-3, p.2.

¹⁴¹ WESAPDoc3-16 ASC Exhibit P Fish and Wildlife 2022-09-28. Attachment P-3. Section 4.0, p.5; and Section 5.2, p.14.

1 31, 2018. Surveys for habitat mapping and raptor nests were then conducted concurrently with
2 the WGS surveys described above; biologists delineated areas of relatively homogenous
3 vegetation and characterized the composition and structure of habitat, with a minimum
4 mapping unit of 1-acre. Each delineated vegetation polygon was assigned a habitat type,
5 subtype and habitat category.
6

7 Botanical and wetland surveys were conducted within the 324-acre sit boundary on July 3,
8 2019, June 22, 2022, and May 19, 2022. The results of these surveys are described below as
9 they were used to inform that habitat categories within the analysis area.

10
11 The Department recommends Council find that the above-described databases, references and
12 field surveys were conducted in accordance with ODFW and other available guidance ~~and~~ are
13 appropriate for informing habitat ~~cauterization-categorization~~ at the site and potential impacts
14 to state sensitive wildlife species.
15

16 Habitat Categories within the Analysis Area

17

18 This standard creates requirements for mitigating impacts to fish and wildlife habitat, based on
19 the functional quantity and quality of the habitat impacted as well as the nature, extent, and
20 duration of the impact. Functional quality is presented using a habitat classification system
21 based on the function and value of the habitat it would provide to a species or group of species
22 likely to use it. ODFW policy identifies six habitat categories, with Category 1 being the most
23 valuable, and Category 6 the least valuable.
24

25 As described above, the analysis area includes the area within and extending ½-mile from the
26 site boundary. When an analysis area extends beyond the area that could be directly impacted,
27 as is the case under the Fish and Wildlife Habitat standard, the purpose is to identify whether
28 there are adjacent sensitive habitat areas, such as WGS Category 1 habitat, that would inform
29 habitat categorization within the area of potential impact. Other than the potential for WGS
30 habitat outside of the site boundary, there is not sensitive habitat outside the site boundary
31 that should be considered in the evaluation of habitat categorization.
32

33 Habitat categorization, based on habitat type, within the analysis area includes the following:
34

- 35 • Category 3 habitat:
 - 36 ○ Shrub-steppe (mature, big basin sagebrush; rubber rabbitbrush; green
 - 37 rabbitbrush)
 - 38
- 39 • Category 4 habitat:
 - 40 ○ Eastside grasslands (green rabbitbrush, rubber rabbitbrush, non-native cereal
 - 41 rye, cheatgrass and bulbous bluegrass)
 - 42
- 43 • Category 5 habitat:

- 1 ○ Eastside grasslands (green rabbitbrush, rubber rabbitbrush, cheatgrass, non-
2 native cereal rye, Russian thistle yellow starthistle, salsify, and stork’s bill)
- 3
- 4 • Category 6 habitat:
 - 5 ○ Active agriculture
 - 6 ○ Developed areas
- 7

8 In a January 2022 comment letter, ODFW agreed~~s~~ with the applicant’s habitat categorization
9 presented above and in Table 5 below.¹⁴² However, in a comment submitted on the draft
10 proposed order, ODFW indicated that, due to adjacent development, agriculture and
11 fragmented habitat, the proposed Category 3 and 4 habitat would not serve as functional
12 “important” habitat, and would be more appropriately categorized as Category 5 habitat. Based
13 on the appropriate desktop and field surveys and resulting data, and ODFW recommendations,
14 the Department recommends Council find that the habitat categorization may be relied upon to
15 establish the applicable mitigation goals under the standard, to be updated prior to
16 construction as per Fish and Wildlife Habitat Condition 1 below.¹⁴³ Figure 97: Habitat Categories
17 within the Analysis Area and Figure 108: Habitat Subtypes within the Analysis Area below
18 present habitat mapping within the analysis area.
19

¹⁴² WESAPPD6-5 pASC Reviewing Agency Comment_ODFW_Rosenberg 2022-01-26. Comment 5.

¹⁴³ WESAPPD3 Reviewing Agency Comment ODFW Somers 2022-11-03.

1 **Figure 9: Habitat Categories within the Analysis Area**



1 **Figure 10: Habitat Subtypes within the Analysis Area**



IV.H.2 Habitat Impacts and Mitigation

Habitat impacts can be temporary, temporal or permanent depending on whether the impact can be restored within 3-5 years, 5-10 years or is not recoverable and therefore considered permanent due to siting of facility structures. For this proposed facility, all habitat impacts will occur within an approximately 3-mile perimeter fenceline and are considered permanent habitat impacts. Because all onsite impacts are considered permanent habitat impacts, and there are no temporary habitat impacts, there is not a revegetation plan or revegetation requirements for restoration of temporary habitat impacts. However, the applicant will be required to monitor all areas of disturbance prior to and during construction, and during operations, within the fenceline for site stability and noxious weeds under the requirements of the Noxious Weed Plan (see recommended Land Use Conditions 9, 10 and 11) and ESCP (see recommended Soil Protection Conditions 1, 2 and 3).

Permanent habitat disturbance impacts to Categories 3, 4 and 5 are preliminarily estimated at 320 acres. Impacts to Category 6 habitat do not require mitigation under the standard and therefore are omitted from the habitat impact calculation. As presented in Table 5: *Summary of Habitat Impacts, by Category/Acres*, permanent impacts to habitat include 20 acres on Category 3, 139 acres on Category 4 and 161 acres on Category 5 habitat.

Table 5: Summary of Habitat Impacts, by Category/Acres

Habitat Category	Habitat Subtype	Permanent Impact (Acres)
3	Shrub-steppe	20
4	Eastside Grasslands	139
5		161
6	Other Row Crops	4
Total Permanent Impacts for Categories 1-5 =		320

“Habitat Category 3” is essential habitat for fish and wildlife, or important habitat for fish and wildlife that is limited either on a physiographic province or site-specific basis, depending on the individual species or population.

The mitigation goal for Category 3 habitat is no net loss of either habitat quantity or quality. The Council interprets this to mean that both habitat quantity and quality must be preserved. The goal is achieved by avoidance of impacts or by mitigation of unavoidable impacts through reliable “in-kind, in-proximity” habitat mitigation to achieve no net loss in either pre-development habitat quantity or quality.

“Habitat Category 4” is important habitat for fish and wildlife species.

1 Like Category 3, the mitigation goal for Category 4 habitat is no net loss in either existing
2 habitat quantity or quality. The Council interprets this to mean that both existing habitat
3 quantity and quality must be preserved. The goal is achieved by avoidance of impacts or by
4 mitigation of unavoidable impacts. In contrast to Category 3, mitigation options are less
5 constrained and may involve reliable “in-kind or out-of-kind, in-proximity or off-proximity”
6 habitat mitigation to achieve no net loss in either pre-development habitat quantity or quality.

7
8 *“Habitat Category 5” is habitat for fish and wildlife having high potential to become*
9 *either essential or important habitat.*

10
11 If impacts are unavoidable, the mitigation goal for Category 5 habitat is to provide a net benefit
12 in habitat quantity or quality. The Council has previously interpreted this to mean that there
13 must be some improvement in either habitat quality or quantity. To clarify the “net benefit”
14 goal, ODFW has advised: “The improvement in habitat quantity or quality achieved need not
15 rise to the level of improvement required to meet a goal of ‘no net loss’ (i.e. the level required
16 or recommended in the Mitigation Policy for Habitat Categories 2, 3, and 4).” The goal is
17 achieved by avoidance of impacts or by mitigation of unavoidable impacts through “actions that
18 contribute to essential or important habitat.”

19
20 *“Habitat Category 6” is habitat that has low potential to become essential or important*
21 *habitat for fish and wildlife.*

22
23 Impacts to Category 6 habitat does not require mitigation under the standard.

24
25 To achieve the habitat mitigation goals for permanent impacts to Category 3, 4 and 5 habitat,
26 the applicant proposes to implement a Habitat Mitigation Plan (HMP). In the draft HMP (See
27 Attachment P-5 of this order), the applicant proposes to demonstrate consistency with ODFW’s
28 mitigation goals for each applicable habitat category based on obtaining a habitat mitigation
29 area (HMA) of sufficient size and quality to provide a no net loss in habitat quantity for the
30 approximately 320 acres permanently impacted; and to implement a suite of enhancement
31 actions sufficient to achieve a no net loss in quality for Category 3 and 4 habitat and a net
32 benefit in quality for Category 5 habitat. Applicant identifies a potential HMA as the 2100-acre
33 Olex Ranch owned by Karen Kronner and Bob Gritski, located in Gilliam County. The quality of
34 the habitat at the potential Olex HMA ranges from Category 2 to 5 based primarily on its
35 vegetative characteristics and the HMA is also located within ODFW-designated mule deer
36 winter range (Category 2 habitat). To demonstrate this commitment, applicant includes a
37 recorded Memorandum of Option for Conservation Agreement is included in the draft HMP.

38
39 The applicant proposes mitigation acreage ratios (acres impacted to acres protected in HMA)
40 per habitat category, as presented in Table 6 below. The maximum size of the HMA is
41 approximately 239 acres.

Table 6 : Habitat Mitigation to Achieve No Net Loss in Habitat Quantity

Habitat Category	Habitat Subtype	Permanent Impact (Acres)	Goal	Mitigation Acreage Ratio	Total Mitigation Acres	Does Mitigation Acreage Ratio Meet the Quantity Goal?
3	Shrub-steppe	20	No net loss	1:1	20	Yes
4	Eastside Grasslands	139		1:1	139	Yes
5		161	Net benefit	0.5:1	80.4	Yes
6	Other row crops	4	NA			
Total Permanent Impacts for Categories 1-5 =		320	-	-	239	-

1
 2 In the draft HMP, the enhancement actions proposed to achieve a no net loss in habitat quality
 3 for Categories 3 and 4, and a net benefit in quality for Category 5 habitat impacts, include:
 4 shrub planting within 20 acres of existing shrub-steppe; weed control; seeding on a minimum of
 5 5-acres; fire control; and restricted grazing, as presented in Table 7 below.
 6

Table 7: Habitat Mitigation to Achieve No Net Loss in Habitat Quality

Habitat Category	Habitat Subtype	Permanent Impact (Acres)	Goal	Mitigation Enhancement	Total Mitigation Acres (Minimum)	Does Mitigation Enhancement Meet Quality Goal?
3	Shrub-steppe	20	No net loss	Shrub-planting; weed control	Within 20 acres; as needed	Yes
4	Eastside Grasslands	139		Seeding; weed control	5 acres; as needed	Yes
5		161	Net benefit	weed control	As needed	Yes
Total Permanent Impacts for Categories 1-5 =		320				

7
 8 Based on consultation with ODFW and the minimum mitigation acres available for
 9 enhancement within the HMA, the Department recommends Council find that the proposed
 10 enhancement actions demonstrate the ability to achieve a no net loss in habitat quality for

1 Category 3 and 4 impacts, and a net benefit for Category 5 impacts. The Department further
2 recommends that, prior to construction, the applicant be provided an opportunity to re-
3 evaluate habitat categorization in consultation with ODFW, that would then be used in the
4 finalization of the final HMP as outlined below.

5
6 The Department recommends Council impose a condition requiring that, prior to construction,
7 the applicant may re-evaluate the habitat categorization at the site in consultation with ODFW,
8 and then finalize the draft Habitat Mitigation Plan, including selection of an HMA, substantially
9 similar to or with similar habitat enhancement potential as that currently under review, based
10 on a preconstruction habitat assessment, and execution of a legally binding agreement to
11 conserve, enhance and maintain the HMA for the life of the proposed facility:

12
13 **Recommended Fish and Wildlife Condition 1 (PRE):** Prior to construction, the certificate
14 holder shall:

15 a. Indicate to the Department and ODFW if certificate holder intends to re-evaluate
16 habitat categorization at the site, and if so, consult with ODFW and Department in
17 final categorization.

18 ~~a-b.~~ Calculate the size of the habitat mitigation area (HMA) for permanent habitat
19 impacts, based on final habitat mitigation obligations and facility design. The
20 calculation must be based on the ratios and methods presented in the Final Order on
21 the ASC and provided to the Department for review and approval.

22 ~~b-c.~~ Provide evidence to the Department demonstrating that an agreement of outright
23 purchase, conservation easement or similar conveyance has been executed for the
24 enhancement and protection of the HMA under the requirements of the Habitat
25 Mitigation Plan, to extend for the life of the facility.

26 ~~c-d.~~ Submit a final Habitat Mitigation Plan to the Department for review and approval,
27 substantially similar to the draft plan provided in Attachment P-5 of the Final Order
28 on the ASC.

29
30 **Recommended Fish and Wildlife Condition 2 (OPR):** During operation, the certificate
31 holder shall implement and adhere to the requirements of the Habitat Mitigation Plan, as
32 approved per Fish and Wildlife Condition 1.

33
34 The draft HMP includes a Memorandum of Option of Conservation Easement executed on April
35 13, 2022 for one or more easements for land conservation purposes over approximately 240
36 acres; and two maps demonstrating the location of the proposed HMA, the underlying habitat
37 type and enhancement areas. Based on this evidence and the evaluation of habitat, habitat
38 categorization and applicable mitigation goals, and compliance with the above-proposed
39 conditions, the Department recommends Council find that the applicant has demonstrated that
40 permanent impacts to wildlife habitat will be mitigated in a manner consistent with ODFW's
41 fish and wildlife habitat mitigation policy.

42
43 IV.H.3 Wildlife Impacts and Mitigation
44

- 1 The proposed site boundary contains suitable habitat for 9 state sensitive birds and two eagle
- 2 species, as presented in Table 8: *State Sensitive Species with the Potential to Occur within the*
- 3 *Analysis Area* below.¹⁴⁴
- 4

¹⁴⁴ The two eagle species identified are not state sensitive species, “bald eagles (*Haliaeetus leucocephalus*) and golden eagles (*Aquila chrysaetos*) are ... species of concern protected under the Bald and Golden Eagle Protection Act (BGEPA).

Table 8: State Sensitive Species with the Potential to Occur within the Analysis Area

Common Name (<i>Scientific Name</i>)	ODFW Status in Columbia Plateau ¹	Expected Habitat	Observed (including Quantity) or Expected Occurrence within Analysis Area	Potential Use of Habitat within Analysis Area
Birds				
bald eagle (<i>Haliaeetus leucocephalus</i>)	N/A	Nests in forested areas adjacent to large bodies of water. Nests in trees, rarely on cliff faces and ground nests in treeless areas. Known to scavenge opportunistically on carcasses in otherwise unsuitable habitat particularly during migration.	Not observed during surveys.	Potential scavenging and foraging habitat.
golden eagle (<i>Aquila chrysaetos</i>)	N/A	Usually nests on cliffs but also can nest in trees. Breeds in open and semi open habitats at a variety of elevations, in tundra, shrublands, grasslands, woodland-brushlands, and coniferous forests, farmland and riparian areas. Typically forages in open habitats like grasslands, areas with steppe-like vegetation.	Not observed during surveys.	Potential foraging habitat.
Brewer's sparrow (<i>Spizella breweri</i>)	S	Abundant east of the Cascades in sagebrush communities.	Not observed during surveys.	Limited sagebrush habitat available.
Burrowing owl (<i>Athene cunicularia hypugaea</i>)	SC	Nests in earthen burrows in open shrub-steppe regions and grasslands.	Not observed during surveys.	Limited nesting and foraging habitat available.

Table 8: State Sensitive Species with the Potential to Occur within the Analysis Area

Common Name (<i>Scientific Name</i>)	ODFW Status in Columbia Plateau ¹	Expected Habitat	Observed (including Quantity) or Expected Occurrence within Analysis Area	Potential Use of Habitat within Analysis Area
Common nighthawk (<i>Chordeiles minor</i>)	S	Nests in open landscapes with little ground cover and is most abundant in sagebrush and rock scablands of eastern Oregon.	Not observed during surveys.	Limited nesting and foraging habitat available.
Ferruginous hawk (<i>Buteo regalis</i>)	SC	Occurs in the open landscapes east of the Cascades, most common in the foothills of the Blue Mountains. Nests on the ground or in lone or peripheral trees.	Not observed during surveys.	Foraging habitat available.
Grasshopper sparrow (<i>Ammodramus savannarum</i>)	S	Prefers open grasslands, found in scattered colonies along unforested northern slopes of the Blue Mountains.	Three individuals observed in Eastside grassland.	Breeding and foraging habitat available.
Loggerhead shrike (<i>Lanius ludovicianus</i>)	S	Breeds in open habitats east of the Cascades.	Not observed during surveys.	Limited potential habitat.
long-billed curlew (<i>Numenius americanus</i>)	SC	Locally common breeder in open grassland areas east of the Cascades. It is most abundant in the Columbia River basin.	Three individuals observed during surveys in eastside grassland habitat.	Breeding habitat available.
Sagebrush sparrow (<i>Artemisiospiza nevadensis</i>)	SC	Widespread throughout the extensive shrub-steppe of eastern Oregon. Usually associated with big sagebrush.	Not observed during surveys.	Limited sagebrush habitat available.

Table 8: State Sensitive Species with the Potential to Occur within the Analysis Area

Common Name (<i>Scientific Name</i>)	ODFW Status in Columbia Plateau ¹	Expected Habitat	Observed (including Quantity) or Expected Occurrence within Analysis Area	Potential Use of Habitat within Analysis Area
Swainson's hawk (<i>Buteo swainsoni</i>)	S	Prefers bunchgrass prairies of eastern Oregon and common in the foothills of the Blue Mountains. Nests typically in solitary tree, bush, or small grove.	Six individuals observed foraging in eastside grassland and Shrub-steppe habitat during surveys.	Foraging habitat available.
<p>Notes: ODFW Status: S = Sensitive Species, SC = Critical Sensitive Species</p>				

1

1 Potential impacts to state-sensitive species from proposed facility construction include injury to
2 or loss (fatality) due to collision with or crushing from construction equipment vehicles; and,
3 general disturbance (noise and visual), which can interrupt wildlife behavior. In addition, there
4 are risks to wildlife species during proposed facility operations from structure collision, vehicle
5 collisions, disturbance related to artificial lighting and introduction or spread of noxious weeds.
6 To minimize impacts to wildlife species, the applicant proposes to implement numerous design
7 measures, construction restrictions and a long-term wildlife monitoring plan.

8
9 All of the applicant’s proposed measures are presented in ASC Exhibit P Section 7.1.1 and 7.1.2,
10 which have been converted into measures that can be verified by the Department and included
11 in a Wildlife Monitoring and Adaptive Management Plan provided as Attachment P-3 of this
12 order. To ensure that the applicant adheres to its representations and to allow the Department
13 the ability to monitor and evaluate implementation of the design and construction-related
14 avoidance measures, the Department recommends Council impose the following conditions:
15

16 **Recommended Fish and Wildlife Condition 3 (PRE):** Prior to construction, the certificate
17 holder shall provide evidence to the Department that the design measures included in
18 the Wildlife Monitoring and Adaptive Management Plan (Attachment P-3 of the Final
19 Order on the ASC) have been included in the final facility design and construction
20 contractor contracts, as applicable.

21
22 **Recommended Fish and Wildlife Condition 4 (CON):** During construction, the certificate
23 holder shall adhere to the requirements of the Wildlife Monitoring and Adaptive
24 Management Plan (Attachment P-3 of the Final Order on the ASC). Monitoring records
25 shall be maintained throughout construction and included in the semi-annual report
26 submitted to the Department pursuant to OAR 345-026-0080.

27
28 **Recommended Fish and Wildlife Condition 5 (OPS):** During operation, the certificate
29 holder shall adhere to the requirements of the Wildlife Monitoring and Adaptive
30 Management Plan (Attachment P-3 of the Final Order on the ASC). Monitoring records
31 shall be maintained throughout operation and included in the annual report submitted
32 to the Department pursuant to OAR 345-026-0080.

33
34 **Conclusions of Law**

35
36 Based on the foregoing recommended findings of fact and conclusions, and subject to
37 compliance with the recommended site certificate conditions, the Department recommends the
38 Council find that the design, construction and operation of the facility, with mitigation, would
39 satisfy the requirements of the Council’s Fish and Wildlife Habitat standard.

40
41 **IV.I Threatened and Endangered Species: OAR 345-022-0070**

42
43 *To issue a site certificate, the Council, after consultation with appropriate state agencies,*
44 *must find that:*

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

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

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

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

Findings of Fact

For the purposes of this standard, threatened and endangered species are those identified as such by either the Oregon Department of Agriculture or the Oregon Fish and Wildlife Commission.¹⁴⁵

The analysis area for threatened or endangered plant and wildlife species, as defined in the Project Order, is the area within and extending 5-miles from the proposed site boundary.

Desktop Review

In order to identify threatened and endangered species that might occur within the analysis area, the applicant conducted a desktop review using information provided by the Oregon Biodiversity Information Center (ORBIC) and the Oregon Department of Fish and Wildlife (ODFW) and additional sources of information regarding threatened and endangered species published by ORBIC, ODFW, U.S. Fish and Wildlife Service, the Burke Museum of Natural History and Culture Herbarium, the Oregon Flora Project, and the Washington Department of Natural Resources.¹⁴⁶

The applicant’s literature review indicated that one endangered animal species, Washington ground squirrel (*Uroditellus washingtoni*), had the potential to occur within the analysis area. The desktop review identified two historic occurrence records for Washington ground squirrel

¹⁴⁵ Although the Council’s standard does not address federally-listed threatened or endangered species, applicants must comply with all applicable federal laws, including laws protecting those species, independent of the site certificate.

¹⁴⁶ [WESAPPD0c3-17 ASC Exhibit Q TE Species 2022-09-28](#) ~~WESAPP-ASC, Exhibit Q~~, Section 2.1.

1 (WGS) within the analysis area, with the most recent of the two recorded in 1979.¹⁴⁷ Wolverine
2 (*Gulo gulo*), a state threatened species was also considered in the desktop review but was not
3 specifically surveyed for due to lack of suitable habitat.

4
5 The literature review identified one threatened plant species, Lawrence’s milkvetch (*Astragalus*
6 *collinus* var. *laurentii*), with the potential to occur within the analysis area. The desktop review
7 identified one occurrence record for Lawrence’s milkvetch at a location southeast of Echo,
8 approximately 3 miles south of the site boundary.¹⁴⁸

9 10 *Field Surveys*

11 12 Washington Ground Squirrel Surveys

13 Surveys for Washington ground squirrel (WAGS/WGS) were conducted on April 22 and 23, May
14 21 and 22, 2019, and March 22, May 9 and 10, 2020. Surveyors walked linear transects spaced
15 165 to 230 feet apart in suitable habitat, including non-agricultural habitats and non-developed
16 lands, within the site boundary and within an area extending 1000 feet from the site boundary
17 unless separated by a road, ~~or other habitat barrier,~~ or if access from landowners was not
18 granted. ~~The Applicant explained that s~~ Surveys generally followed methodology developed in
19 the Status and Habitat Use of the WAGS on State of Oregon Lands (Morgan and Nugent 1999).
20 Details on the survey methods are provided in ASC Exhibit P, Attachment P-3. No active
21 Washington ground squirrel colonies were observed within the survey area during surveys.¹⁴⁹

22 23 Botanical Surveys

24 The applicant conducted botanical surveys on July 3, 2019, and June 22, 2020. The survey
25 schedule was chosen to cover the identification period for Lawrence’s milkvetch (*Astragalus*
26 *collinus* var. *laurentii*) and dwarf evening-primrose (*Eremothera* [*Camissonia*] *pygmaea*). The
27 surveys were conducted outside of the recommended identification period for sessile
28 mousetail, but this species’ vernal pool habitat was considered unlikely to occur in the analysis
29 area.¹⁵⁰ Botanical field surveys were conducted using the Intuitive Controlled Survey Method.
30 No occurrences of Lawrence’s milkvetch, dwarf evening-primrose, or sessile mousetail were
31 observed during the surveys.

32 33 *Mitigation of Potential Impacts to Threatened and Endangered Species*

34
35 As described above, one endangered animal species and one threatened plant species have the
36 potential to occur in the analysis area. No occurrences of either species were observed during
37 surveys conducted in support of the application.

38

¹⁴⁷ [WESAPPD03-17 ASC Exhibit Q TE Species 2022-09-28ASC, Exhibit Q](#), Section 3.1.

¹⁴⁸ [WESAPPD03-17 ASC Exhibit Q TE Species 2022-09-28ASC, Exhibit Q](#), Section 3.2.1.

¹⁴⁹ [WESAPPD03-17 ASC Exhibit Q TE Species 2022-09-28ASC, Exhibit Q](#), Section 3.1.

¹⁵⁰ [WESAPPD03-17 ASC Exhibit Q TE Species 2022-09-28, Section 2.2.2.](#)

1 The analysis area includes potentially suitable habitat for WGS, the endangered animal species
2 with the potential to occur in the analysis area. While no active WGS colonies were observed
3 during initial surveys, survey results are only considered valid for three years based on the
4 species' dispersal and burrowing patterns. While the 2019 and 2020 survey data may be relied
5 upon for this evaluation, additional preconstruction surveys of potentially suitable habitat
6 within 1,000 feet of ground disturbing activities, where access is permitted, are necessary to
7 ensure avoidance and minimize of impacts to the survivability of the species. The Department
8 recommends Council impose the following conditions to ensure that WGS and their habitat are
9 avoided:

10
11 **Recommended Threatened and Endangered Species Condition 1 (PRE):** Prior to
12 construction of the facility, facility component or phase, as applicable, that would occur
13 within suitable Washington Ground Squirrel (WGS) habitat:

- 14 a. The certificate holder must conduct protocol-level WGS surveys within 1000 feet of any
15 ground disturbing activity, where accessible. Where suitable WGS habitat is not
16 accessible (e.g., on adjacent properties where access is not granted) an assessment
17 must be conducted from accessible areas and based on desktop sources using methods
18 similar to those used during the pre-application assessment, which was conducted
19 consistent with ODFW recommendations.
- 20 b. Suitable WGS habitat can be defined as any terrestrial habitat that has not been
21 developed e.g. active agricultural lands, paved roads), particularly shrub-steppe and
22 grassland habitats. Protocol-level surveys include two sets of surveys at least two weeks
23 apart, in the active squirrel season (March 1 to May 31), in suitable habitat that is
24 contiguous with areas of ground disturbing activity (e.g., excluding areas across a paved
25 road from ground disturbance). Protocol-level surveys are valid for three (3) years. If
26 construction does not commence the year following the protocol-level survey, any
27 active burrows or colonies shall be checked prior to the year of construction to evaluate
28 any changes that may occur in the location and delineation of Category 1 and 2 habitat.
- 29 c. The certificate holder shall submit the WGS Survey Report to the Department and
30 ODFW. The certificate holder shall clearly identify whether WGS were observed or
31 colonies and burrows were identified, and include a facility layout map demonstrating
32 how temporary and permanent impacts to WGS and WGS habitat will be avoided (i.e.,
33 Category 1 habitat associated with WGS colonies and burrows) will be avoided.

34
35 **Recommended Threatened and Endangered Species Condition 2 (CON):** If the WGS surveys
36 required under Threatened and Endangered Species Condition 1 identify Category 1 WGS
37 habitat (buffer extending 785-feet around each active burrow, excluding areas not suitable
38 for WGS foraging or burrow establishment) or Category 2 WGS habitat (buffer extending
39 4,136-feet from the delineated Category 1 habitat, excluding areas of habitat types not
40 suitable for WGS foraging or burrow establishment), during construction of the facility,
41 facility component or phase, the certificate holder shall:

- 42 a. Map, flag and avoid delineated Category 1 ~~and 2~~ WGS habitat.

- 1 b. Check the location of active burrow or colonies in subsequent years of construction to
2 evaluate any changes that may occur in the location and delineation of Category 1 ~~and 2~~
3 habitat.
4

5 Based on compliance with the above-recommended conditions, the Department recommends
6 Council find that the design, construction and operation of the proposed facility would not be
7 likely to significantly reduce the likelihood of survivability or recovery of Washington Ground
8 Squirrel.
9

10 The applicant conducted surveys for Lawrence’s milkvetch, the threatened plant species with
11 the potential to occur in the analysis area, and for other candidate species with potentially
12 suitable habitat in the analysis area. The applicant did not observe occurrences of Lawrence’s
13 milkvetch during the surveys. ODA agrees with the applicant’s survey results, and considers the
14 likelihood of future Lawrence’s milkvetch occurrences within the surveyed areas to be low.¹⁵¹
15 Based on the low likelihood Lawrence’s milkvetch occurrences, ODA clarified that
16 preconstruction surveys are unnecessary given the expected construction commencement to
17 occur within 3 years, if the site certificate is approved. Because these species were not
18 observed during initial surveys and are not known to occur in the analysis area, the Department
19 recommends the Council find that the design, construction and operation of the proposed
20 facility would not be likely to cause a significant reduction in the likelihood of survival or
21 recovery of the species. To ensure the avoidance of any potential impacts to the survivability or
22 recovery of the Lawrence’s milkvetch, the Department recommends Council impose the
23 following condition:
24

25 **Recommended Threatened and Endangered Species Condition 3 (PRE):** Prior to and during
26 construction of the facility, facility component or phase, as applicable, the certificate holder
27 shall avoid via mapping and flagging, based on a 100 foot buffer (unless otherwise reviewed
28 and approved by the Department and ODA), any incidentally identified occurrence(s) of
29 Lawrence’s milkvetch.
30

31 Based on compliance with the above-recommended condition, the Department recommends
32 Council find that the design, construction and operation of the proposed facility would not be
33 likely to significantly reduce the likelihood of survivability or recovery of the Lawrence’s
34 milkvetch.
35

36 **Conclusions of Law**
37

38 Based on the foregoing recommended findings of fact and conclusions, and subject to
39 compliance with the recommended site certificate conditions, the Department recommends
40 that the Council find that the proposed facility would comply with the Council’s Threatened and
41 Endangered Species standard.

¹⁵¹ WESAPPD07-1 Reviewing Agency Comment ODA NPC5_Brown 2022-10-21.

1 **IV.J Scenic Resources: OAR 345-022-0080**

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

9 ***152

10 **Findings of Fact**

11
12 The Scenic Resources Standard requires the Council to find that visibility of proposed facility
13 structures, plumes, vegetation loss and landscape alterations would not cause a significant
14 adverse impact to identified scenic resources and values. To be considered under the standard,
15 scenic resources and values must be identified as significant or important in a local land use
16 plan, tribal land management plan, state land management plan or federal land management
17 plan.

18
19 The analysis area for the Scenic Resources standard is the area within and extending 10-miles
20 from the proposed site boundary.

21
22 **Applicable Land Use and Management Plans**

23
24 The analysis area for scenic resources includes parts of two Oregon counties, one Washington
25 county, four Oregon municipalities, and land administered by the Oregon Department of Fish
26 and Wildlife (ODFW), the U.S. Bureau of Land Management (BLM), the U.S. Fish and Wildlife
27 Service (USFWS), and the U.S. Army Corps of Engineers (USACE). No Tribal lands are located
28 within the Analysis Area. Land use and management plans applicable to lands within and
29 extending 10-miles of the proposed site boundary are presented in Table 9 below.

30
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40

¹⁵² The proposed facility is not a special criteria facility under OAR 345-015-0310; therefore OAR 345-022-0080(2) is not applicable.

1

Table 9: Identification of Applicable Local, State, Tribal, and Federal Land Use and Management Plans for Lands within 10-Mile Scenic Resources Analysis Area

Governmental Agency	Plan
Local (County)	
Morrow County	Morrow County Comprehensive Plan (2013)
Umatilla County	Umatilla County Comprehensive Plan (1984, 2018)
Benton County (WA)	Benton County Comprehensive Plan (2020)
Local (City)¹	
City of Umatilla	City of Umatilla Comprehensive Land Use Plan (2019)
City of Hermiston	City of Hermiston Comprehensive Plan and Development Code (2021)
City of Stanfield	City of Stanfield Comprehensive Plan (2001) and Development Code (2017)
City of Echo	City of Echo Comprehensive Plan (2005) and Zoning Administrative Regulations (2015)
State	
Oregon Department of Fish and Wildlife	Columbia Basin Wildlife Areas Management Plan (2008)
Oregon Parks and Recreation Department	Hat Rock State Park Master Plan (1983)*
Federal	
BLM, Vale District	Baker Resource Management Plan (BLM 1989)
USFWS	McNary and Umatilla National Wildlife Refuges Comprehensive Conservation Plan and Environmental Assessment (USFWS 2007)
US Army Corps of Engineers	Lake Umatilla and Lake Wallula Recreation Management Areas – John Day Lock and Dam Master Plan (1976) and McNary Shoreline Management Plan (2012)
*This plan was not identified in ASC Exhibit R.	

2

3 Both the applicant and the Department reviewed the listed plans for identification of scenic
4 resources or values as significant or important.

5

6 The Morrow County Comprehensive Plan does not identify any significant or important scenic
7 resources.¹⁵³

8

9 The 1983 Umatilla County Comprehensive Plan, as amended June 1, 2022, identifies Wallula
10 Gap as a significant or important scenic resource.¹⁵⁴ Wallula Gap, which is a large water gap in

¹⁵³ WESAPPD03-18 ASC Exhibit R Scenic Resources 2022-09-28, Section 3.1., citing Morrow County Comprehensive Plan – Natural Resources Element (2013), page 11. Accessed 6/28/2022 at: https://www.co.morrow.or.us/sites/default/files/fileattachments/planning/page/991/6_of_19_-_mc_comp_plan_-_goals_5_6.pdf

¹⁵⁴ Umatilla County Comprehensive Plan, Page 8-12.

1 the Columbia River, is located more than 20 miles from the proposed facility site, and is not
2 within the Analysis Area for Scenic Resources. The Umatilla County Comprehensive plan further
3 states that “[i]t is the position of Umatilla County that Comprehensive Plan designations and
4 zoning ordinances mitigate other scenic and aesthetic conflicts through ordinance criteria.”¹⁵⁵
5 The proposed facility’s compliance with applicable substantive criteria from the Umatilla
6 County Development Ordinance is discussed in Section IV.E of this Order.

7
8 The Benton County (Washington) Comprehensive Plan establishes a goal to ““Conserve visually
9 prominent naturally vegetated steep slopes and elevated ridges that define the Columbia Basin
10 landscape and are uniquely a product of the ice age floods.” The plan specifically discusses the
11 protection of the Rattlesnake uplift formation, specifically Rattlesnake, Red, Candy, and Badger
12 mountains, and the Horse Heaven Hills. Applicant states that this could be interpreted to
13 identify the formation as a significant or important scenic resource; however, there are no
14 features located within the analysis area.¹⁵⁶

15
16 The City of Umatilla Comprehensive Land Use Plan (2019) does not identify any significant or
17 important scenic resources.¹⁵⁷

18
19 The City of Hermiston Comprehensive Plan (2020) explains that designated Open Space areas
20 within the Urban Growth Boundary of the City, including areas within the 100- year floodplain
21 of the Umatilla River, the wetlands area in the northeast portion of Hermiston and the OSU
22 Agricultural Experimentation Station provide visual relief and passive recreational activities.
23 Policy 16 of the plan then explains that the City will acquire and develop additional parks and
24 recreational facilities which possess scenic qualities.¹⁵⁸ Because no specific scenic sites or views
25 are identified, the applicant concluded that the plan does not identify significant or important
26 scenic resources.¹⁵⁹

27
28 The designated Open Space areas within the 100-year floodplain of the Umatilla River appear to
29 have been designated as Open Space as an interim floodplain ordinance.¹⁶⁰ Because these
30 areas appear to be designated to address a natural hazard rather than to protect a scenic
31 resource or to provide visual relief, the Department concurs that these areas are likely not
32 intended to be considered important scenic resources. The Department does not agree with
33 the applicant’s reasoning with regards to the remaining areas zoned as Open Space; however,
34 as discussed further below the Applicant’s ZVI analysis indicates that the proposed facility

¹⁵⁵ Umatilla County Comprehensive Plan, Page 8-10.

¹⁵⁶ [WESAPDoc3-18 ASC Exhibit R Scenic Resources 2022-09-28Exhibit R](#), Section 3.1.3.

¹⁵⁷ City of Umatilla Comprehensive Land Use Plan (2019), pg. 3

¹⁵⁸ City of Hermiston Comprehensive Pan (2020), page III-17

¹⁵⁹ [WESAPDoc3-18 ASC Exhibit R Scenic Resources 2022-09-28Exhibit R](#), Section 3.2.2.

¹⁶⁰ City of Hermiston Comprehensive Plan, page III-10.

1 would not be visible from either wetlands area in the northeast portion of Hermiston or the
2 Oregon State University Agriculture Research and Extension Center.

3
4 The City of Stanfield Comprehensive Plan (2003) does not identify specific scenic resources as
5 significant or important.¹⁶¹

6
7 The City of Echo Comprehensive Plan (2005) does not identify specific scenic resources as
8 significant or important.¹⁶²

9
10 The Oregon Department of Fish and Wildlife’s Management Plan for the Columbia Basin
11 Wildlife Areas (2008) does not discuss scenic resources and does not identify specific scenic
12 resources as significant or important.¹⁶³

13
14 The Hat Rock State Park Master Plan (1983) identifies views of Hat Rock, Boat Rock, and the
15 Columbia River as providing important scenic qualities and elements of scenic interest.

16
17 The Baker Resource Management Plan, which provides management direction for lands
18 administered by the Bureau of Land Management in Morrow, Umatilla, Union, and Baker
19 County, identifies 151,711 acres of land identified as areas of high-scenic quality. None of these
20 areas are located within the analysis area. The plan also states that the Oregon Trail Area of
21 Critical Environmental Concern (ACEC) will be managed to preserve the areas “unique historic
22 resource and visual qualities.” As a result of this management direction, the Applicant
23 concludes that the Oregon Trail ACEC is a significant scenic resource. The Department concurs.

24
25 The Comprehensive Conservation Plan and Environmental Assessment for the McNary and
26 Umatilla National Wildlife Refuges (2007) does not identify specific scenic resources as
27 significant or important.

28
29 The John Day Lock and Dam Master Plan (USACE 1976), and McNary Shoreline Management
30 Plan (USACE 2012) do not identify specific scenic resources as significant or important.

31
32 Visual Impacts

33
34 Based on the analysis of Land Use Management Plans applicable to lands within the analysis
35 area, significant or important scenic resources that could potentially be affected by the
36 construction and operation of the proposed facility include: -wetlands area in the northeast
37 portion of Hermiston which are designated as Open Space, the Oregon State University

¹⁶¹ City of Stanfield Comprehensive Plan (2003), page 6.

¹⁶² City of Echo Comprehensive Plan (2005), page 3.

¹⁶³ ODFW. 2008. Columbia Basin Wildlife Areas Management Plan.

1 Agriculture Research and Extension Center, views of Hat Rock, Boat Rock, and the Columbia
2 River within Hat Rock State Park, and the Echo Meadows parcel of the
3 Oregon Trail Area of Critical Environmental Concern (ACEC).

4
5 The applicant conducted a zone of visual influence (ZVI) analysis to determine whether the
6 proposed facility would potentially be visible from the protected areas in the analysis area. The
7 ZVI analysis assumed that the facility would include solar arrays with a maximum height of 16
8 feet- and a substation, and equipment with a maximum height of 30 feet. The impacts of these
9 modeled components were expected to be representative of impacts from other facility
10 components. The analysis used a “bare-earth” modeling approach, meaning that it only
11 considers the effects of topography and does not account for the effects of distance, lighting,
12 weather, atmospheric attenuation factors, vegetation, or buildings.

13
14 The applicant ZVI analysis indicates that the proposed facility would not be visible from either
15 the wetlands area in the northeast portion of Hermiston or the Oregon State University
16 Agriculture Research and Extension Center, which are both designated as Open Space in the
17 City of Hermiston Comprehensive Plan. As a result, the Department recommends that the
18 proposed facility would not impact these resources. Discussion of potential impacts to
19 resources within Hat Rock State Park and the Echo Meadows parcel of the Oregon Trail ACEC
20 are discussed further below.

21 Hat Rock State Park

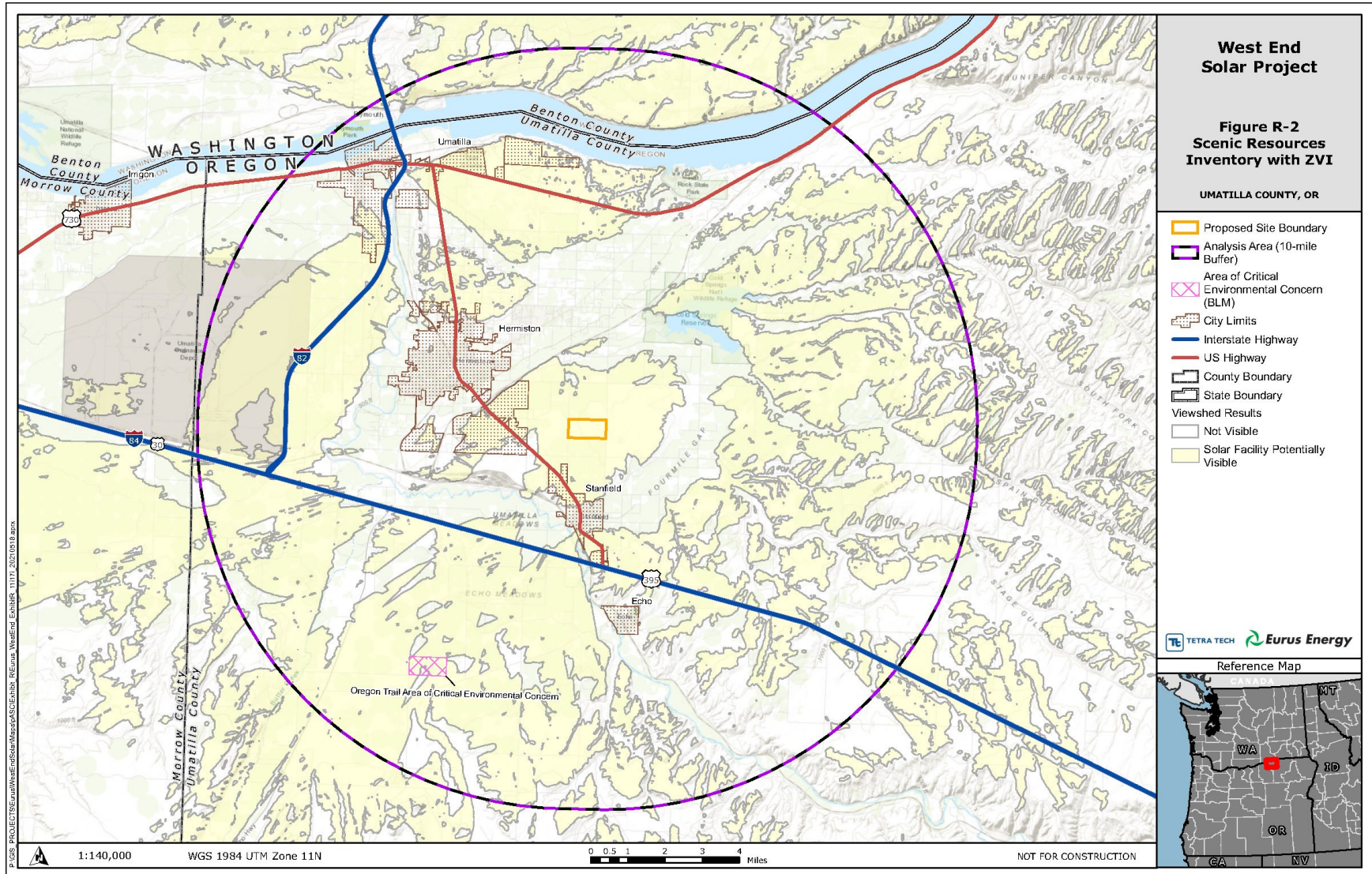
22
23 The applicant’s viewshed analysis indicates that the proposed facility is potentially visible from
24 some higher elevation areas of Hat Rock State Park at a background distance (more than 5
25 miles) but would not be visible from developed use areas. In addition, due to the orientation of
26 the proposed facility from the park, views of important scenic resources, including Hat Rock,
27 Boat Rock, and the Columbia River are not likely to be affected by the construction or operation
28 of the proposed facility. Based on the limited visibility, viewing distance, and low visual
29 contrast, the Department recommends the Council find that visual impacts of the facility on Hat
30 Rock State Park would be less than significant.

31 Oregon Trail ACEC

32
33 The applicant’s viewshed analysis indicates that the proposed facility would be visible from
34 much the Echo Meadows Parcel of the Oregon Trail ACEC at a background distance (greater
35 than 5 miles.) Visitors to the ACEC viewing Oregon Trail ruts and interpretive signage would
36 likely be oriented to the North, but some viewers may be oriented to the Northwest in the
37 direction of the proposed facility. Existing views in the direction of the proposed facility would
38 include wind turbines, transmission lines, agricultural structures, center-pivot agricultural
39 irrigation systems and urban development in the City of Stanfield which would limit the visual
40 contrast introduced by the proposed facility, and in some cases, would screen views of facility
41 components or structures. Due to the viewing distance, low visual contrast, and high level of
42 existing development within the affected viewshed, the Department recommends that Council
43 find that the visual impacts of the facility on the Echo Meadows Parcel of the Oregon Trail ACEC
44 would be less than significant.

1

Figure 11: Applicant's ZVI Analysis for Scenic Resources within 10-Mile Analysis Area



2

1 Recommended monitoring and mitigation conditions

2 While no potential significant adverse impacts to scenic resources to significant were identified,
3 the applicant proposed to incorporate the following mitigation features into its design.

- 4
- 5 • Use solar modules with antireflective coating to minimize the potential for glare.
- 6 • Limit the length, if any, of overhead collector lines.
- 7 • Use permanent lighting fixtures with down shielding to limit off-site lighting.
- 8 • Limit signage to those needed for manufacturer’s or installer’s identification,
9 appropriate warning signs, or owner identification.

10

11 While the Department believes these proposals should be viewed as binding commitments by
12 the applicant, the Department does not recommend that additional conditions are required.
13 Based on the applicant’s proposals to use antireflective coating and underground most
14 collector lines in Exhibit B of the ASC, and requirements for down shielding on lighting and
15 limitations on signage imposed under Recommended Land Use Conditions 3, 4 and 5.

16

17 Conclusion of Law

18

19 Based on the foregoing findings of fact, the Department recommends the Council conclude that
20 the design, construction, and operation of the proposed facility would not be likely to result in
21 significant adverse impacts to any scenic resource identified as significant or important in a
22 local, tribal, or federal land or resource management plan, in compliance with Council’s Scenic
23 Resources standard.

24

25 IV.K Historic, Cultural, and Archaeological Resources: OAR 345-022-0090

26

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

30

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

33

34 *(b) For a facility on private land, archaeological objects, as defined in ORS*
35 *358.905(1)(a), or archaeological sites, as defined in ORS 358.905(1)(c); and*

36

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

38

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

43 * * *

1 **Findings of Fact**

2

3 Information about Historic, Cultural and Archaeological Resources is located in ASC Exhibit S,
4 where information concerning the location of archaeological sites or objects may be exempt
5 from public disclosure under ORS 192.345(11)¹⁶⁴.

6

7 The analysis area for Historic, Cultural and Archaeological Resources as identified in the Project
8 Order is the area within the site boundary, and for aboveground resources, including Built
9 Environment, Traditional Cultural Properties or Historic Properties of Religious and Cultural
10 Significance to Indian Tribes, the analysis area is the area within and extending 1-mile from the
11 site boundary.¹⁶⁵ The entire 324-acre site boundary was field surveyed for archaeological and
12 historic resources. The expanded field survey area for historic built environment resources was
13 based upon the findings of the archival research for the one mile beyond the site boundary.

14

15 *Description of Discovery Measures*

16

17 Discovery measures included desktop analysis consisting of a review of State Historic
18 Preservation Office (SHPO) records (Oregon Archaeological Records Remote Access and Oregon
19 Historic Sites Database) for previous surveys and known recorded archaeological or
20 historic/built-environment resources within the site boundary and the analysis area, as well as
21 historic maps, aerial photographs, and records on file with the Umatilla County Tax Assessor's
22 Office. For historic-era resources, archival sources such as historic maps and historic
23 newspapers were reviewed online to develop a chain of title for the property and identify
24 whether the properties are associated with an important individual or event in local, state, or
25 national history. In addition, local libraries were visited.

26 Discovery measures also included applicant and Department coordination with affected Tribal
27 Governments; the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) and
28 Confederated Tribes of Warm Springs (CTWS). The applicant coordinated directly with the
29 CTUIR November 11, 2020 and May 12, 2021, where the Tribe was provided a copy confidential
30 survey report (Exhibit S, Attachment S-1) for comments. The Department requested comments
31 from CTUIR and CTWS on the facility on November 18, 2021, and on September 27, 2022. The
32 applicant indicated that the CTWS did not express interest in the project, and the Tribe did not
33 respond to Department comment requests.

34 In April 2020, the applicant's qualified archaeologists conducted a Phase I pedestrian survey of
35 the entire 324-acre site boundary. Results of the desktop studies of prior surveys in the analysis
36 area indicated a very low density of previously recorded archaeological resources in the analysis
37 area supported the low probability of subsurface resources and as such, no subsurface probing
38 during the survey was warranted. The pedestrian surveys were conducted following the Oregon
39 SHPO guidelines which included archaeologist crews walking taking observations spread out in

¹⁶⁴ The site boundary does not encompass public lands; therefore, OAR 345-022-0090(1)(c) is not applicable.

¹⁶⁵ WESAPPD08 Expedited Review Project Order 2022-02-10. Table 3.

1 line at 20-meter intervals (i.e., transects) and spatial control was maintained through the use of
2 1:24,000 scale maps and Global Positioning System (GPS) units with sub-meter accuracy.
3 Ground surface visibility varied between fair (greater than 30 percent) and excellent (greater
4 than 75 percent) throughout the analysis area.¹⁶⁶

5
6 Additional historic built-environment field surveys were conducted, based on SHPO comments,
7 for a total of eight tax parcels that archival research identified as containing historic buildings.
8 Historic resources/built environment field surveys were conducted in April 2022 based on the
9 results of the archival research showing parcels with historic-era structures. A comprehensive
10 study of each property was completed to evaluate the significance of each building for listing on
11 the NRHP, which is discussed further in this section.

12 *Survey Results and Impacts Assessment*

13 *Tribal Resources*

14
15
16
17 In response to Department comment requests, the CTUIR provided comments on the
18 application indicating that they had reviewed the archaeological report the applicant provided
19 them, and that location of the proposed facility does not appear to have any archaeological
20 concerns.¹⁶⁷ The letter concludes that the CTUIR does not have cultural resource concerns at
21 the time the letter was submitted.

22
23 A plan outlining the procedures for inadvertent discoveries (Draft Inadvertent Discovery Plan or
24 IDP) during construction has been drafted and was reviewed by CTUIR as part of their review of
25 ASC Exhibit S Attachment S-1. A draft IDP, as amended based on updated contact information
26 provided by CTUIR¹⁶⁸, is provided as it is included in confidential Attachment S-1 as Appendix B
27 as well as in Attachment S-3, included in this of this order. The IDP includes minimum avoidance
28 buffers/markers around cultural resources and procedures to follow in the unlikely event of a
29 discovery of an archaeological resource during construction. In its letter to the Department the
30 CTUIR acknowledges the IPD's inclusion in ASC Exhibit S and indicate that they appreciate the
31 inclusion of the Inadvertent Discovery Plan (IDP) in the ASC.¹⁶⁹

32
33 ~~The applicant indicates that CTUIR may still be reviewing the IDP and, at a minimum, the~~
34 ~~contact information would be finalized prior to construction, Thus, The Department~~
35 ~~recommends Historic, Cultural, and Archaeological Resources Condition 1 requiring that, prior~~
36 ~~to construction, the applicant submit to the Department the to ensure that the final IPD is~~
37 ~~submitted to the Department with the most current agency and tribal government contacts at~~
38 ~~the time., the~~The Department recommends Historic, Cultural, and Archaeological Resources

¹⁶⁶ WESAPPD0c3-19 ASC Exhibit S Cultural 2022-0-9-28, Section 3.1.2.

¹⁶⁷ WESAPPD0c6 pASC Reviewing Agency Comment_CTUIR_Steinmetz 2021-11-30.

¹⁶⁸ WESAPPD0c3-2 Reviewing Agency Tribal Gov DPO Comment CTUIR Farrow Ferman 2022-11-16. In comments on the DPO, CTUIR's Cultural Resources Protection Program Manager Teara Farrow Ferman provided current contact information for CTUIR, CIS and Oregon State Police to be reflected in the draft IDP.

¹⁶⁹ WESAPPD0c6 pASC Reviewing Agency Comment_CTUIR_Steinmetz 2021-11-30.

1 Condition 1. Further, to ensure that the ~~IPD-IDP~~ is implemented during construction and during
 2 any ground disturbing operational activities, the Department also recommends Historic,
 3 Cultural, and Archaeological Resources Condition 2.

4
 5 **Recommended Historic, Cultural, and Archaeological Resources Condition 1 (PRE):**

6 Prior to construction of the facility, facility component or phase, submit to the
 7 Department a ~~final~~ Inadvertent Discovery Plan (based on Attachment S-3 of Final
 8 Order on ASC), finalized with current contact information for the coordination protocol
 9 (3).

10
 11 **Recommended Historic, Cultural, and Archaeological Resources Condition 2 (GEN):**

12 During construction and ground disturbing operational activities, implement the final
 13 Inadvertent Discovery Plan.

14
 15 Because of the low probability of precontact archaeological resources on site and the CTUIR’s
 16 acknowledgement that there are not resources within the analysis area they are aware of that
 17 would be impacted, and the implementation of the IPD during construction and ground
 18 disturbing activities during operations, the Department recommends that any significant
 19 adverse impacts from the construction and operation of the facility to tribal resources would be
 20 minimized.

21
 22 *Field and Desktop Survey Results*

23
 24 *Previously Recorded Resources*

25
 26 The databases with existing archaeological and historical property information revealed that
 27 nine cultural resource surveys had been previously performed within site boundary and the 1-
 28 mile analysis area. The archival research identified two previously documented resources as
 29 presented below.
 30

Table 10: Previously Recorded/Identified Cultural Resources within Analysis Area

Resource ID	Resource Description	Resource Type	NRHP-Eligibility	Nearest Distance to Site Boundary
HPP-H-2	Historic Refuse Scatter	Archaeological Site	Unevaluated	0.5-mile south of southwest corner
35UM 00399	Historic Irrigation Ditch (“Furnish Ditch”)	Historic Site*	Unevaluated (possibly eligible under NRHP Criteria A-C)	0.5-mile northwest of the northwest corner
* Although the historic Furnish Ditch is listed in Oregon Archaeological Records Remote Access and has been assigned a State trinomial number for an archaeological site, it is a functioning irrigation ditch. SHPO considers functioning historic irrigation ditches to be historic sites, not archaeological sites (SHPO 2016: Appendix C). As such, the applicant presents it in ASC Exhibit S, Table S-2 as a historic site.				

31

1 The potentially eligible (or unevaluated) archaeological site, HPP-H-2, is identified as an historic
2 refuse scatter is located approximately 0.5-mile south of southwest corner of the site boundary.
3 Because this resource is outside of the site boundary, there would not be impacts to the
4 archaeological site. Similarly, the historic site 35UM 00399, which is a functioning Historic
5 Irrigation Ditch (“Furnish Ditch”), is located outside of the site boundary and would not be
6 impacted by the proposed facility.

7
8 *Archaeological Site EWE-BB-01*
9

10 The Phase I pedestrian survey resulted in the identification of archaeological site EWE-BB-01
11 which consists of a historic refuse scatter including two abandoned vehicles and two artifact
12 concentrations. The vehicles are both early twentieth century disarticulated vehicles without
13 diagnostic markings or tags, and the two artifact concentrations are comprised nearly entirely
14 of domestic and automotive cans. The site represents household and auto-related artifacts
15 typical of debris scatters from regional farming communities discarded during the early to late
16 twentieth century. The applicant submitted information about site EWE-BB-01 to SHPO and in a
17 February 7, 2022 Archaeological Site Form Approval, SHPO confirmed that a Smithsonian
18 number of 35UM00596 has been assigned to the resource and the submission was given a
19 SHPO national register eligibility status of Not Eligible.¹⁷⁰ The Department recommends that
20 Council find that because of the Not Eligible SHPO determination, archaeological site EWE-BB-
21 01 is not protected under OAR 345-022-0090(1)(a).

22
23 OAR 345-022-0090(1)(b) requires the Council to find that, taking into account mitigation, the
24 facility is not likely to result in significant adverse impacts to archaeological sites, as defined in
25 358.905(1)(c) located on private land.¹⁷¹ Because the site contains archaeological objects (old
26 vehicles and refuse) and it is possible the archaeological objects (vehicles) could have with a
27 contextual associations with each other, this resource could qualify for an evaluation under
28 OAR 345-022-0090(1)(b).

29
30 The applicant indicates that based on the current facility design, solar arrays are planned for
31 the area of the EWE-BB-01 resource, therefore the resource would be directly impacted.
32 According to the Oregon SHPO, mitigation may include documenting historic properties before
33 they are demolished.¹⁷² The resource cataloging encompassed with the SHPO NRHP designation
34 can be considered mitigation for impacts to the Not Eligible resource, because it preserves the
35 data for the resource, even though the resource is considered Not Eligible. Therefore, the
36 Department recommends Council find that impacts to EWE-BB-01 have been mitigated

¹⁷⁰ WESAPPD09 SHPO Not Eligible Confirmation Site EWE-BB-01 2022-02-07.

¹⁷¹ ORS 358.905(1)(c) (A) “Archaeological site” means a geographic locality in Oregon, including but not limited to submerged and submersible lands and the bed of the sea within the state’s jurisdiction, that contains archaeological objects and the contextual associations of the archaeological objects with:

(i) Each other; or
(ii) Biotic or geological remains or deposits...

¹⁷² Oregon SHPO Mitigation for Adverse Effects: Examples Fall 2019

1 appropriately, therefore EWE-BB-01 may be impacted by the construction and operation of the
2 facility.

3
4 *Historic Resources*

5
6 *Historic Transmission Structures*

7
8 As discussed in this order, the applicant proposes to connect to the grid with one of three
9 transmission lines that run across or adjacent to the site. Two transmission line rights-of-way
10 transect the proposed site boundary and run southeast to northwest crossing over the site
11 boundary: Bonneville Power Administration's (BPA) McNary to Roundup 230-kilovolt (kV) line
12 which was constructed in 1952 and PacifiCorp's Pendleton to Hermiston 69-kV line, which was
13 constructed in 1941. Both lines were included in the preliminary records search as a known
14 historic utility corridors observed on historic cartographic references. During the field surveys,
15 no artifacts were observed to be associated with either transmission line corridor. Both lines
16 are still operational and were recommended as eligible for listing in the NRHP under Criterion A
17 for their significant association with early rural electrification in eastern Oregon. Neither line
18 was recommended for listing in the NRHP under criteria B through D.

19
20 The applicant explains that right-of-way corridor avoidance (except for access roads) is
21 recommended if the transmission lines are not selected for interconnection. As discussed in
22 Section III.A.1., *Energy Facility*, the facility would be constructed and operated to avoid the
23 transmission line rights-of-way, as represented in ASC Exhibit C, Figure C-4 (Overall Site Plan),
24 and in Figure 1: *Preliminary Facility Site Plan*, of this order. As indicated in the Preliminary Site
25 Plan, there would be a 75-foot set back of facility components on both sides of the transmission
26 line rights-of-way, however, facility roads would be permissible under the transmission lines.
27 Under General Standard Condition 3, the applicant is required to design, construct, operate and
28 retire the facility substantially as described in the site certificate.

29
30 The applicant states that if either of the lines are selected for interconnection, the impact of the
31 interconnection would be assessed separately and in consultation with the owning company
32 (BPA or PacifiCorp). However, for both lines, an interconnect is not expected to result in a
33 significant impact because the transmission lines remain operational. According to BPA Pacific
34 Northwest Transmission System, Register of Historic Places Multiple Property Documentation
35 Form connection to BPA's Pacific Northwest Transmission System multiple property resource is
36 expressly allowed. Note that development under the lines and around their associated utility
37 pole structures will not cause significant impacts to the resources. The sites will be flagged for
38 avoidance during construction to ensure significant impacts are avoided. If avoidance is
39 infeasible, the applicant would enter consultations with SHPO and the owning company (BPA
40 and/or PacifiCorp) to determine appropriate mitigation for significant impacts.

41
42 The Department recommends that Council find that because the BPA McNary to Roundup 230-
43 kilovolt (kV) transmission line and PacifiCorp's Pendleton to Hermiston 69-kV transmission line
44 are operational facilities where it's permissible to interconnect (impact) with them, and taking

1 into account the right-of-way facility avoidance areas for impacts to the operational
2 transmission lines, the construction and operation of the facility, is not likely to result in
3 significant adverse impacts to these historic resources.

4
5 *Historic Properties*
6

7 The analysis area for aboveground resources, including Built Environment resources, the
8 analysis area is the area within and extending 1-mile from the site boundary. Therefore, the
9 applicant provides in ASC Exhibit S, Attachment S-2, a Historic Properties Inventory Report.¹⁷³
10 Historic sites are defined by the NHPA as resources consisting of standing structures 50 years of
11 age or older.¹⁷⁴

12
13 The applicant’s archaeological consultants conducted a desktop survey identifying buildings on
14 aerial photographs of the historic properties, reviewed the SHPO Historic Sites database, and
15 assessed the information on the Umatilla County Assessors site to determine the age of the
16 buildings. Historic maps were also reviewed to identify previous and current ownership of each
17 parcel, which included General Land Office cadastral maps, the 1914 Ogle map, and the 1934
18 Metsker map. A total of eight tax lots were identified as containing historic buildings. Field
19 assessments of these eight properties were conducted from the public right-of-way, where
20 resources were photographed and recorded on photograph logs. Documentation also included
21 photographic documentation of at least one elevation, a physical description, and a concise
22 statement of significance relative to the building’s eligibility for listing on the NRHP (36 CFR Part
23 60.4).

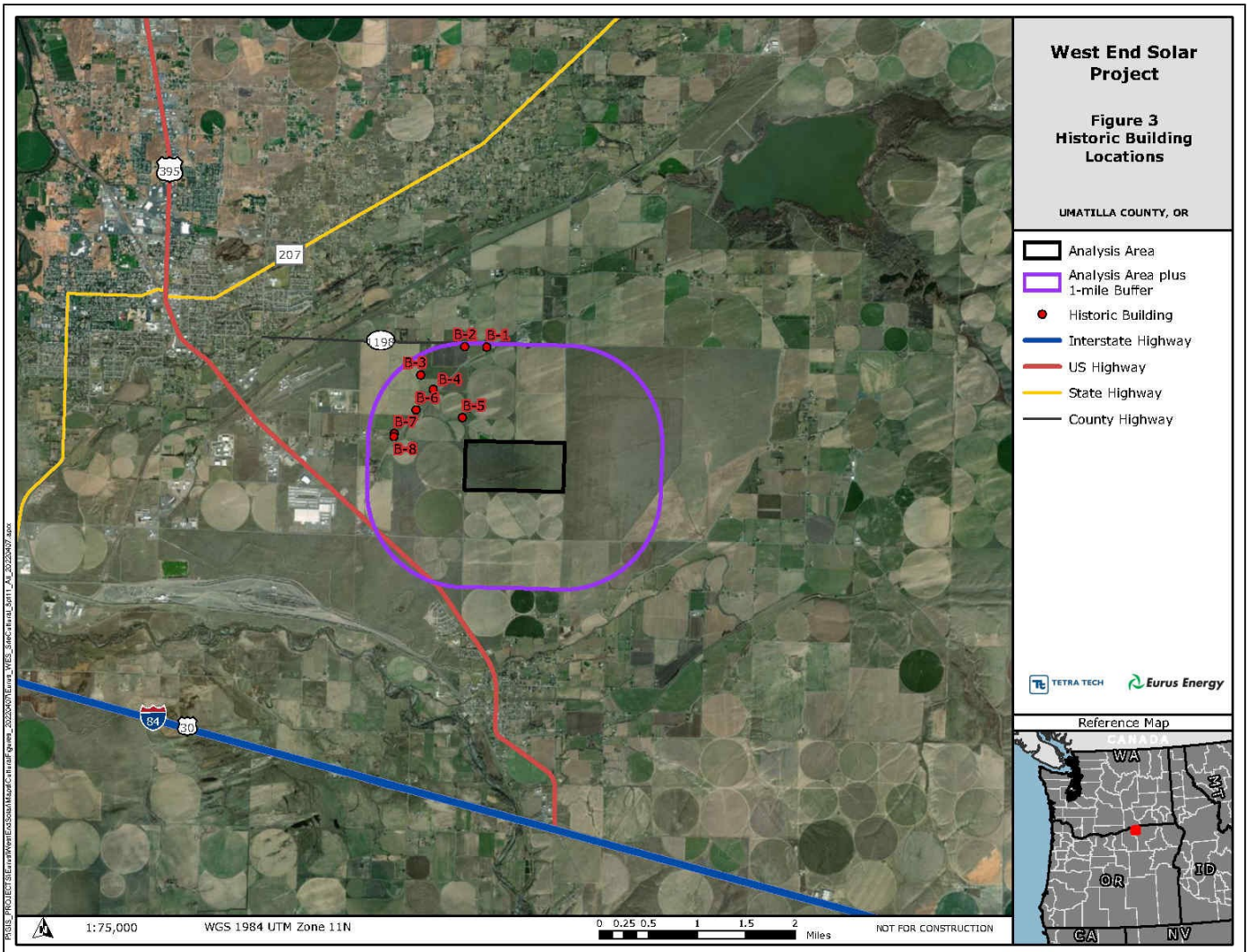
24
25 Figure 12: *Historic Building/Property Locations*, identifies the location and proximity to the
26 facility site boundary for the historic properties that are evaluated in the Historic Properties
27 Inventory Report and correspond to Table 11: *Historic Property Inventory and NRHP*
28 *Significance Summary*.

¹⁷³ Attachment S-2 was provided by the applicant in response to SHPO’s January 2022 comment letter which indicated that to adequately evaluate potential indirect impacts to the setting (e.g. visual/audial) of historic, built environment resources from the proposed facility, SHPO requests that the applicant evaluate aerial photographs/cartographic maps (1970) within 1-mile of the site boundary to determine if there are any historic properties within 1-mile of the site boundary and that if there are historic built environment resources that could be impacted by the facility, additional field work is likely recommended to further evaluate likelihood of NRHP eligibility and potential impact. WESAPPDoc6-6 pASC Reviewing Agency Comment_SHPO Case No 21-1537_Gabriel 2022-01-31.

¹⁷⁴ ORS 358.905(1)(a) and ORS 358.905(1)(c) require archaeological resources to be at least 75 years old, however the Code of Federal Regulations (CFR) Title 36 Chapter II § 261.2 defines a Historical Resource as any structural, architectural, archaeological, artifactual or other material remains of past human life or activities which are of historical interest and are at least 50 years of age, and the physical site, location, or context in which they are found. Therefore, because the applicant is applying federal NRHP criteria to the resources, the applicant evaluated resources that are 50 years or older. <https://www.ecfr.gov/current/title-36/chapter-ii/part-261> Accessed 10-25-2022.

1

Figure 12: Historic Building/Property Locations



2
3

4 Because OAR 345-021-0010(1)(s)(A) requires an evaluation of historic and cultural resources
 5 within the analysis area that have been listed, or would likely be eligible for listing, on the
 6 NRHP, the Department and SHPO recommend and the applicant provides an evaluation of the
 7 four NRHP Eligibility Criteria.¹⁷⁵ In addition to the four criteria of eligibility under CFR Part 60.4,
 8 architectural resources must meet some, if not all, of the seven aspects of integrity as defined

¹⁷⁵ The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- A. that are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. that are associated with the lives of persons significant in the past; or
- C. that embody the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master, or that possess high artistic value, or that represent a significant or distinguishable entity whose components may lack individual distinction; or
- D. that have yielded, or are likely to yield, information important in prehistory or history....

- 1 by the National Park Service (NPS) which include location, design, setting, materials,
- 2 workmanship, feeling, and association.
- 3
- 4 The results of the applicant’s desktop and field studies for historic properties and buildings is
- 5 provided below in Table 11: *Historic Property Inventory and NRHP Significance Summary*.
- 6
- 7
- 8

Table 11: Historic Property Inventory and NRHP Significance Summary

GIS Point	Tax Id	Building Construction Years	Location	Description	Significance Evaluation ¹
B-1	4N29170000500	1953, 1991, 2021, 2022	32654 E Highland Ext., Stanfield, OR	Agricultural Area abutting a canal. Equipment storage garage (2022), a residence (2021) a small utility shed (1953), and a garage (1991)	No buildings or structures remain from this early period in the property’s history. Neither the property nor the individual historical building is eligible for inclusion on the NRHP.
B-2	4N29180000100	1970, 1979, 1979	32548 E Highland Ext, Stanfield, OR	Agricultural Area with canal at the south. Residence (1979), garage (1979), and a pole barn used for potato storage (1970)	Potato storage building is clearly related to the history of potato farming in Oregon and is part of a local agricultural legacy. No exterior characteristics that suggest the building’s use as potato storage. Property is one of several that are associated with the Amstad family. Neither the property nor the individual historical building is eligible for inclusion on the NRHP.
B-3	4N29180000700	1959, c. 2000	79113 Melody Lane, Stanfield, OR	Agricultural Area with transmission line views. Residence built in 1959 and substantially modified around 2000, large pole barn used for machinery storage constructed around the same time.	Residence has been significantly altered since its construction. Property retains no buildings or structures from its ownership by the irrigation companies. property also does not relate to any historically significant individuals or group. Neither the property nor the individual historical building is eligible for inclusion on the NRHP.
B-4	4N29180000800	1940, 2005	79023 Melody Lane, Stanfield, OR	Agricultural Area with canal through middle. Residence (1940, remodeled 2005) and a machinery storage shed (2005 with a 2015 addition).	Original residence was significantly altered in 2005, obscuring almost all of its exterior features. The building no longer maintains integrity of design, workmanship, or materials. No evidence to suggest that the property could provide additional historical

Table 11: Historic Property Inventory and NRHP Significance Summary

GIS Point	Tax Id	Building Construction Years	Location	Description	Significance Evaluation ¹
					information. Neither the property nor the individual historical building is eligible for inclusion on the NRHP.
B-5	4N29180001200	1938, 1980	78910 Canal Rd., Stanfield, OR	Agricultural Area with canal. Residence (1938) and a detached two car garage (1980). A hay cover (1970) built at the west end of the property was demolished in 2021.	Property is not clearly associated with any significant themes in national or local history. Residence has been significantly altered, forfeiting integrity of materials, design, and workmanship. Neither the property nor the individual historical building is eligible for inclusion on the NRHP.
B-6	4N29180001700	1948, c. 1948, 1979, 1979, c. 2015	78926 Melody Lane, Stanfield, OR	Agricultural Area with canal at the south. Residence (1948, remodeled 1979), detached garage (1979) (Photograph 7), Pump house (1979), prefabricated storage shed (recent), and a saltbox roof shed (Assessor Eff Year built 1960).	Residence has an identifiable architectural style but has been significantly modified through a non-historic addition and alterations to the siding and other exterior features. It does not have integrity of design, materials, and workmanship. No evidence to suggest that the property could provide additional historical information. Neither the property nor the individual historical building is eligible for inclusion on the NRHP.
B-7	4N29180001900	1950 (non-extant)	2505 E Airport Rd (A), Stanfield, OR	Umatilla County Tax Assessor, 4N29180001900 had a lean-to (1950) and 4N29180002000 had a machine shed (1950)	Via satellite imagery, it is evident that the two buildings visible in 1970 were removed from the property between 2009-2011. Therefore, there are no longer any historic buildings on the properties.
B-8	4N29180002000	1950 (non-extant)	2505 E Airport Rd (B), Stanfield, OR	Umatilla County Tax Assessor,	Via satellite imagery, it is evident that the two buildings visible in 1970 were removed from the property between 2009-2011.

Table 11: Historic Property Inventory and NRHP Significance Summary

GIS Point	Tax Id	Building Construction Years	Location	Description	Significance Evaluation ¹
				4N29180001900 had a lean-to (1950) and 4N29180002000 had a machine shed (1950)	Therefore, there are no longer any historic buildings on the properties.
<p>¹ See ASC Exhibit S, Attachment S-2. Historic Properties Inventory Report, for a full evaluation relative to the building’s or properties’ eligibility for listing on the NRHP (36 CFR Part 60.4) including photographic documentation included photographic from least one elevation, a physical description, and a concise statement of eligibility for listing on the NRHP.</p>					

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The applicant and the Department provided Attachment S-2, the Historic Properties Inventory Report to SHPO for their review and comment. On August 19, 2022, SHPO provided a letter to the Department and applicant indicating they reviewed the revised data and indicated that all the necessary data was present for them to complete their review. In the letter SHPO concurred that the eight potentially historic properties documented within the evaluation/analysis area are not eligible for listing in the National Register of Historic Places (Umatilla Tax IDs: 4N29170000500, 4N29180000100, 4N29180000700, 4N29180000800, 4N29180001200, 4N29180001700, 4N29180001900, and 4N29180002000), and that based on the information provided, SHPO concurs that there will be no effect to historic properties for this undertaking.¹⁷⁶

¹⁷⁶ WESAPDoc6-11 pASC Reviewing Agency Comment SHPO Case No. 21-1537_Gabriel_2022-08-19.

1 **Conclusions of Law**

2

3 Based on the foregoing recommended findings of fact, conclusions of law, based upon the
4 recommended conditions, the Department recommends Council find that the proposed facility
5 would comply with the Council’s Historic, Cultural, and Archeological Resources standard.

6

7 **IV.L Recreation: OAR 345-022-0100**

8

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

15 *(a) Any special designation or management of the location;*

16 *(b) The degree of demand;*

17 *(c) Outstanding or unusual qualities;*

18 *(d) Availability or rareness;*

19 *(e) Irreplaceability or irretrievability of the opportunity.*

20 ****177*

21 **Findings of Fact**

22

23 The Recreation standard requires the Council to find that the design, construction, and
24 operation of a facility would not likely result in significant adverse impacts to “important”
25 recreational opportunities within the analysis area. Therefore, the Council’s Recreation
26 standard applies only to those recreation areas that the Council finds to be “important,”
27 utilizing the factors listed in the OAR 345-022-0100(1)(a)-(e); special designations or
28 management of the location; degree of demand; outstanding or unusual qualities; availability
29 or rareness; irreplaceability or irretrievability of the opportunity. After “important” recreational
30 opportunities are identified, the Council must then evaluate whether the design, construction
31 or operation of the facility could adversely impact the identified important recreational
32 opportunity. If the facility could impact the resource, then the Council must consider the
33 significance of the potential impact, by evaluating potential impacts using the factors listed in
34 the OAR 345-022-0100(1)(a)-(e).

35

36 Impacts to important recreational opportunities from construction and operation of the
37 proposed facility that are evaluated in this section are: direct or indirect loss of a recreational
38 opportunity, excessive noise, increased traffic, and visual impacts of facility structures or

¹⁷⁷ The proposed facility is not a special criteria facility under OAR 345-0015-0310; therefore, OAR 345-022-0100(2) is not applicable.

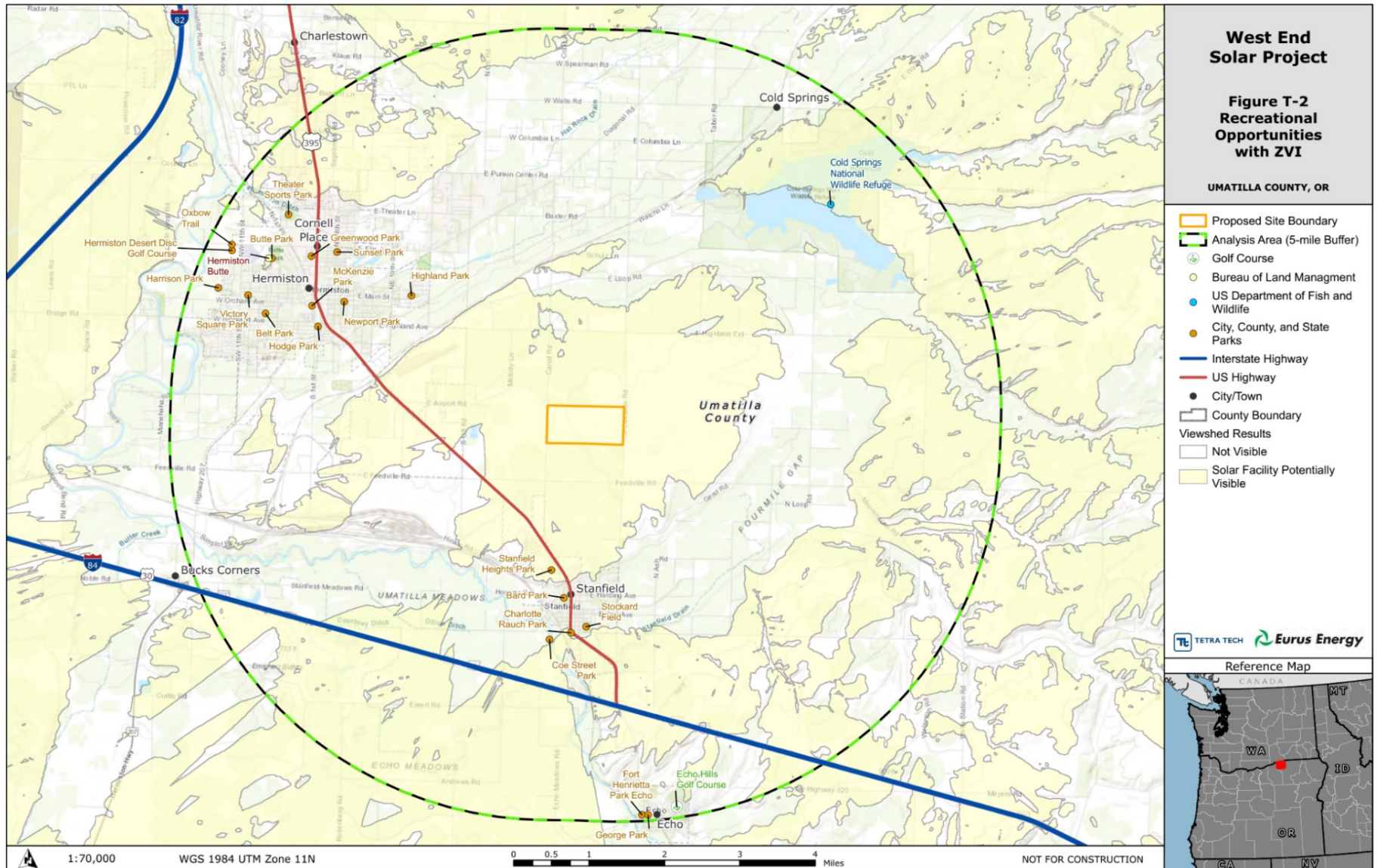
1 plumes. ASC Exhibit T provides information about recreational opportunities. The analysis area
2 for the Recreation standard is the area within and extending five miles from the site boundary.

3
4 Recreational Opportunities within the Analysis Area

5
6 In accordance with OAR 345-001-0010(59)(d), and consistent with the study area boundary, the
7 analysis area for recreational opportunities is the area within and extending 5 miles from the
8 proposed site boundary. As presented in ASC Exhibit T, the applicant conducted a review of
9 published and unpublished resources including maps, GIS files, comprehensive plans, park and
10 recreation plans, park master plans, and internet sites to identify existing recreational
11 opportunities within the analysis area.

12
13 The location of identified recreational opportunities within the analysis area is presented in ASC
14 Exhibit T Attachment T-1 and presented below in Figure 13: *Recreational Opportunities within*
15 *the Analysis Area*.

Figure 13: Recreational Opportunities within Analysis Area



1 There are 23 recreational opportunities identified within the 5-mile analysis area from 1.7 to
 2 4.9 miles from the site boundary. These are identified below in Table 12: *Recreational*
 3 *Opportunities, Distance from Site Boundary, and Importance Designation*, along with the
 4 distance from the site boundary as well as each resources’ “importance” designation under the
 5 standard as provided by applicant and recommended by the Department discussed in this
 6 section.
 7

Table 12: Recreational Opportunities, Distance from Site Boundary, and Importance Designation

Recreational Opportunity	Management or Jurisdiction	Distance from Site Boundary (miles)	Special Designation	Determination of Importance (Yes/No)
Stanfield Heights Park	City of Stanfield	1.7	Municipal Park	No
Nathan Bard Memorial Community Park	City of Stanfield	2.0	Municipal Park	No
Highland Park	City of Hermiston	2.3	Municipal Park	No
Stockard Field	City of Stanfield	2.4	Municipal Park	No
Cold Springs National Wildlife Refuge	Federal State (ODFW for hunting access)	2.4	National Wildlife Refuge	Yes
Rauch Park	City of Stanfield	2.5	Municipal Park	No
Coe Park	City of Stanfield	2.6	Municipal Park	No
Newport Park	City of Hermiston	3.0	Municipal Park	No
Hodge Park	City of Hermiston	3.2	Municipal Park	No
McKenzie Park	City of Hermiston	3.4	Municipal Park	No
Sunset Park	City of Hermiston	3.5	Municipal Park	No
Greenwood Park	City of Hermiston	3.7	Municipal Park	No
Belt Park	City of Hermiston	3.9	Municipal Park	No
Butte Park	City of Hermiston	4.1	Municipal Park	Yes
Hermiston Butte	Federal	4.2	BLM Recreation Area	Yes
Victory Square Park	City of Hermiston	4.2	Municipal Park	No
Theater Sports Park	City of Hermiston	4.3	Municipal Park	No
Harrison Park	City of Hermiston	4.6	Municipal Park	No
Hermiston Desert Disc Golf Course	City of Hermiston	4.7	Municipal Park	No
Oxbow Trail	City of Hermiston	4.7	Municipal Hiking Trail	No
Echo Hills Golf Course	City of Echo	4.9	Municipal Golf Course	No
F.T. George Park	City of Echo	4.9	Municipal Park	No
Fort Henrietta Park and Campground	City of Echo	4.9	Municipal Park	Yes

1 The applicant proposes and the Department recommends that twelve municipal parks in the
2 same three cities “as common and replaceable” because they contain many of the same
3 features as each other, as well as other parks in these cities outside of the analysis area, such as
4 community and sports attractions designed for urbanized communities. These include: Stanfield
5 Heights Park, Stockard Field, Rauch Park, Coe Park, Echo Hills Golf Course, F.T. George Park,
6 Highland Park, Newport Park, Hodge Park, Sunset Park, Greenwood Park, Victory Square Park,
7 Harrison Park. Further, based on an internet search, the Department determined that there are
8 at least two other golf courses in Umatilla County, all of which are open to the public. Based on
9 a review of the submitted materials in Exhibit T, the Department agrees with the applicant and
10 recommends Council find that all thirteen recreation resources in this category are common,
11 replaceable and do not constitute “important” recreational resources utilizing the factors listed
12 in the OAR 345-022-0100(1)(a)-(e).

13
14 The applicant proposes, and the Department concurs that six recreational opportunities would
15 be considered uncommon, but replaceable under the Council’s Rules. Because these recreation
16 resources are uncommon, each one is evaluated in more detail below, however, the
17 Department recommends Council find that these recreational opportunities also would not be
18 considered important under the Council’s Recreation standard.

19
20 Nathan Bard Memorial Community Park – The applicant states that the one unusual quality of
21 this park is that it is used to host the Stanfield 4th of July Celebration every year. However,
22 outside of that one unique quality, the park includes similar features as other parks in the City
23 of Stanfield and other municipal parks in the analysis area. Based on a review of the submitted
24 materials in Exhibit T, the Department agrees with the applicant and concludes that Nathan
25 Bard Memorial Community Park does not constitute an “important” recreation resource
26 utilizing the factors listed in the OAR 345-022-0100(1)(a)-(e).

27
28 McKenzie Park – The applicant states that the park’s uncommon characteristics include the sole
29 skatepark in the community and it contains an interpretive panel site. However, outside of
30 these two unique qualities, the park includes similar features as other parks in the City of
31 Hermiston and other municipal parks in the analysis area. Based on a review of the submitted
32 materials in Exhibit T, the Department agrees with the applicant and concludes that McKenzie
33 Park does not constitute an “important” recreation resource utilizing the factors listed in the
34 OAR 345-022-0100(1)(a)-(e).

35
36 Belt Park – The applicant states that the uncommon characteristic of this park is an arboretum.
37 However, outside of this unique quality, the park includes similar features as other parks in the
38 City of Hermiston and other municipal parks in the analysis area. Based on a review of the
39 submitted materials in Exhibit T, the Department agrees with the applicant and concludes that
40 Belt Park does not constitute an “important” recreation resource utilizing the factors listed in
41 the OAR 345-022-0100(1)(a)-(e).

42
43 Theater Sports Park – The applicant states that the uncommon characteristics include that it is
44 used to host youth sports and is also home to the Hermiston City Softball League. However,

1 outside of these unique qualities, the park includes similar features as other parks in the City of
2 Hermiston and other municipal parks in the analysis area. Based on a review of the submitted
3 materials in Exhibit T, the Department agrees with the applicant and concludes that Theater
4 Sports Park does not constitute an “important” recreation resource utilizing the factors listed in
5 the OAR 345-022-0100(1)(a)-(e).

6
7 Hermiston Desert Disc Golf Course – This is the sole disc golf course within the analysis area
8 which makes it unique. However, both the City of Boardman, 26 miles from Hermiston and the
9 City of Pendleton, 32 miles from Hermiston both have disc golf courses as well which makes the
10 Hermiston Desert Disc Golf Course replaceable. Based on a review of the submitted materials
11 in Exhibit T, the Department agrees with the applicant and concludes that Hermiston Desert
12 Disc Golf Course does not constitute an “important” recreation resource utilizing the factors
13 listed in the OAR 345-022-0100(1)(a)-(e).

14
15 Oxbow Trail – The applicant states that this 5-mile trail’s unusual qualities include that it
16 interconnects with several other recreation resources in Hermiston and includes interpretive
17 panels and a gazebo. However, according to the City of Hermiston’s Parks and Recreation
18 webpage, which is referenced in Exhibit T, several of the city’s parks include paved walking
19 paths which makes the Oxbow Trail replaceable. Based on a review of the submitted materials
20 in Exhibit T, the Department agrees with the applicant and concludes that Oxbow Trail does not
21 constitute an “important” recreation resource utilizing the factors listed in the OAR 345-022-
22 0100(1)(a)-(e).

23
24 *Important Recreational Opportunities*

25
26 For the below reasons and assessment, the applicant proposes, and the Department concurs
27 that there would be four important recreational opportunities within the analysis area: Cold
28 Springs National Wildlife Refuge, Hermiston Butte, Butte Park, Fort Henrietta Park and
29 Campground. The importance evaluation is followed with an assessment of direct or indirect
30 loss of a recreational opportunity as a result of the facility, noise resulting from facility
31 construction or operation; increased traffic resulting from facility construction or operation;
32 and visual impacts of facility structures.

33
34 Cold Springs National Wildlife Refuge – According the United States Fish and Wildlife Service
35 (USFSW) webpage for the Cold Springs National Wildlife Refuge (NWR), referenced in Exhibit T,
36 it “was one of the first refuges established in the West, created by President Theodore
37 Roosevelt on February 25, 1909. Cold Springs NWR was established primarily to benefit
38 waterfowl and other native birds. However, the 3,102-acre refuge, while small, provides a
39 surprising variety of habitats and abundance of many other wildlife species. The open water on
40 the reservoir attracts large numbers of Canada geese and ducks. Dense riparian areas provide
41 cover for migrating and nesting songbirds. Shrub-steppe areas support coyotes, badgers, ring-

1 necked pheasants, several hawk species and trophy elk and deer, along with dozens of other
2 mammal, reptile and amphibian species.”

3
4 While the refuge was first established by Executive Order in 1909, it was subsequently
5 expanded three times through later executive orders. The refuge’s purposes are derived from
6 Executive Orders and the Migratory Birds Convention Act as follows:

- 7 • “as preserves and breeding grounds for native birds”
- 8 • “for use as an inviolate sanctuary, or for any other management purpose, for migratory
9 birds.”

10
11 According to the applicant’s research, “it is the only NWR and ODFW Access and Hunting Site
12 within the Analysis Area (ODFW 2018), providing protection for outstanding wildlife habitat.
13 The NWR also boasts hiking, biking, and horseback riding opportunities, wildlife viewing and
14 photography, and fishing (USFWS 2015). Based on the ecological interest and the mix of
15 individual opportunities, the NWR is considered an uncommon resource; the recreational
16 opportunities are relatively common in the region, but may not offer the same quality of sights
17 and habitat as provided by this NWR. The level of demand is assumed to be low to moderate,
18 because the local population is small, the NWR capacity is large, and the NWR is not located on
19 a high-volume travel route nor near larger population centers. No surveys have ever been
20 completed to determine the level of usage, but the USFWS states that the use is low and the
21 NWR is typically used by residents of local communities (USFWS 2015). The resources and
22 characteristics of the NWR are irreplaceable due to it being a geographic/static recreational
23 resource, and unique to the community. Therefore, though the NWR has low to moderate
24 demand, because of its uncommon nature and irreplaceability the Cold Springs NWR is
25 considered to meet the criteria for an important recreation resource.”

26
27 Based on a review of the submitted materials in Exhibit T and the USFWS webpage for the
28 NWR, the Department agrees with the applicant and concludes that Cold Springs National
29 Wildlife Refuge does constitute an “important” recreation resource utilizing the factors listed in
30 the OAR 345-022-0100(1)(a)-(e).

31
32 Hermiston Butte – According to the “Hermiston Parks, Recreation and Open Space Master Plan
33 – August 2020”¹⁷⁸ (HPROSMP) the Bureau of Land Management (BLM) owns seven acres at the
34 summit of Hermiston Butte. The applicant did not provide, and the Department could not find,
35 a BLM management plan for these 7 acres. However, the following passage is from the
36 HPROSMP¹⁷⁹

37 “According needs assessment findings, Butte Park is the most popular facility in the PROS
38 system, it includes the most recognizable landmark in the City, Hermiston Butte, and it is

¹⁷⁸https://www.hermiston.or.us/sites/default/files/fileattachments/parks_and_recreation/page/9031/hpros_plan_spread_format_-_compressed.pdf.

¹⁷⁹ IBID – Page 54

1 the site of the City’s major outdoor recreation facility, the Hermiston Family Aquatic
2 Center.”

3
4 According to the applicant’s research, “BLM Hermiston Butte is a small, publicly accessible
5 recreation area that primarily serves the local population of Hermiston (AllTrails 2021, BLM
6 2021). The Butte is unusual in that it is the sole butte/raised geographic attraction providing
7 elevated views in the community of Hermiston, as well as the Analysis Area. It provides 0.8
8 miles of hiking trails and an automobile access route to its summit (AllTrails 2021, Google Earth
9 2021). Based on the geographic interest and the mix of individual opportunities, the Butte is
10 considered an uncommon resource. The level of demand is assumed to be low to moderate,
11 because the local population is small, the Butte capacity is large, and the Butte is not located on
12 a high-volume travel route nor near larger population centers. The resources and
13 characteristics of the Butte are irreplaceable due to it being a geographic/static recreational
14 resource, and unique to the community. Therefore, though the Butte has low to moderate
15 demand, because of its uncommon nature and irreplaceability Hermiston Butte is considered to
16 meet the criteria for an important recreation resource. “

17
18 The Department does not agree with the applicant’s assumption that the level of usage is low
19 to moderate because the population is small due to the reference in the HPROSMP that this is
20 Hermiston’s most popular park. However, based on a review of the submitted materials in
21 Exhibit T and the USFWS webpage for the NWR, the Department agrees with the applicant and
22 concludes that Hermiston Butte does constitute an “important” recreation resource utilizing
23 the factors listed in the OAR 345-022-0100(1)(a)-(e).

24
25 Butte Park – As previously cited in the Hermiston Butte overview above, Butte Park is the most
26 popular facility in the City of Hermiston’s park, recreation and open space system. According to
27 the applicant’s research, it is a large facility that “does have some characteristics that are
28 notable but not outstanding, including general park, pet, and sports amenities such as a football
29 field, four-lit soccer fields. However, the park does have some unusual qualities, including that
30 it is the sole dog park and spray park in the community; home to the Funland Playground, one
31 of the largest playground in the Northwest (opening Spring 2021); has interpretive panels; and
32 has direct access to BLM’s Hermiston Butte. Based on the educational and locational interest
33 and the mix of individual opportunities, the park is considered an uncommon resource. The
34 level of demand is assumed to be low to moderate, because the local population is small, the
35 site is large, and the park is not located on a high-volume travel route, although use of the
36 reservable picnic shelter may raise the demand level to moderate. The resources and
37 characteristics of the park are generally replaceable, except for the unique attractions and
38 location adjacent to Hermiston Butte. Though the park has low to moderate demand and is
39 partially replaceable, because of its uncommon features and access to Hermiston Butte, Butte
40 Park is considered to meet the criteria for an important recreation resource.”

41
42 The Department does not agree with the applicant’s assumption that the level of usage is low
43 to moderate because the population is small due to the reference in the HPROSMP that this is
44 Hermiston’s most popular park. However, based on a review of the submitted materials in

1 Exhibit T and the USFWS webpage for the NWR, the Department agrees with the applicant and
2 concludes that Hermiston Park does constitute an “important” recreation resource utilizing the
3 factors listed in the OAR 345-022-0100(1)(a)-(e).

4
5 Fort Henrietta Park and Campground – The applicant did not provide, and the Department
6 could not find, a management plan for this facility. According to the applicant’s research, “Fort
7 Henrietta Park is a small facility located within a developed community, and it is typical in
8 many respects of other small, municipal parks that serve a local population. However, the park
9 does have some unusual qualities, including its location on and access to the Umatilla River,
10 location at a noted Oregon National Historic Trail (ONHT) campsite and river crossing, a replica
11 of a frontier-era blockhouse, and the inclusion of camping within the park (City of Echo 2020).
12 Based on the historic interest and the mix of individual opportunities, specifically including the
13 river access, the park is considered an uncommon resource. The level of demand is assumed to
14 be low, because the local population is small, the facility capacity is small, and the park is not
15 located on a high-volume travel route. The resources and characteristics of the park are
16 generally replaceable, except for the historical link to the ONHT crossing (i.e., its function as a
17 campsite and river crossing for Oregon Trail emigrants). Though the park has low demand and is
18 partially replaceable, because of its uncommon access to the Umatilla River and irreplaceable
19 historical connection to the ONHT, Fort Henrietta Park is considered to meet the criteria for an
20 important recreation resource.

21
22 While the Department cannot confirm the applicant’s assumption that the demand is low
23 because the population is small, based on a review of the submitted materials in Exhibit T and
24 the USFWS webpage for the NWR, the Department agrees with the applicant and concludes
25 that Fort Henrietta Park and Campground does constitute an “important” recreation resource
26 utilizing the factors listed in the OAR 345-022-0100(1)(a)-(e).

27
28 The proposed facility must now be evaluated to ensure its design, construction and operation,
29 taking into account mitigation, are not likely to result in a significant adverse impact to these
30 four important recreational opportunities.

31
32 *Potential Direct or Indirect Loss of Recreational Opportunity*

33
34 *Direct Loss*

35
36 A direct loss to an important recreational opportunity would occur when construction or
37 operation of the proposed facility would impact a recreational opportunity by directly altering
38 the resource so that it no longer exists in its current state. At its closest, the proposed facility is
39 2.4 miles from the Cold Springs National Wildlife Refuge; 4.2 miles from Hermiston Butte; 4.1
40 miles from Hermiston Park; and 4.9 miles from Fort Henrietta Park and Campground
41 respectively. Based on the location of the proposed facility in relation to the four important
42 recreational opportunities, the proposed facility would not physically disturb, or result in
43 ground disturbance, to any of them. The proposed facility would also not require any
44 temporary or permanent closure or removal of the important recreation opportunities to public

1 use. Therefore, based upon review of the location and proximity of important recreational
2 opportunities to the proposed facility site, the Department recommends the Council find that
3 the proposed facility would not be expected to result in indirect impacts to the important
4 recreational opportunities.

5
6 *Indirect Loss*

7
8 Similar to the assessment of direct loss, indirect loss would result if construction or operation of
9 the proposed facility would impact a recreational opportunity by indirectly altering the resource
10 or some component of it. To evaluate indirect loss associated resulting from the construction
11 and operation of the proposed facility, the Department considers potential noise, traffic and
12 visual impacts to the above mentioned important recreational opportunities.

13
14 *Potential Noise Impacts*

15
16 The significance of potential noise impacts to identified recreational opportunities is based on
17 the magnitude and likelihood of the impact on the affected human population or natural
18 resources that uses the important recreational opportunity.

19
20 *Construction and Operation*

21
22 As provided in ASC Exhibit X and discussed in Section IV.R.1., *Oregon Department of*
23 *Environmental Quality (DEQ) Noise Control Regulations for Industry and Commerce* proposed
24 facility construction activities phases that would generate noise include demolition, site
25 preparation and grading, trenching and road construction, equipment installation and
26 commissioning. Table 17: *Construction Equipment Maximum Noise Levels at 50 and 1200 Feet*,
27 identifies construction equipment noise levels based on 40 percent to 50 percent usage factor
28 for each type of equipment at a distance of 50 feet and 1200 feet from the site boundary. As
29 illustrated in this table, noise attenuate, lessens or dissipates the further from the noise source
30 it travels. As such, the loudest construction equipment would be the pneumatic pile drives used
31 to install the solar facility posts, the noise generated at 50 feet in dBA would be approximately
32 95 dBA and at 1200 feet (or 0.23 miles) is with other construction equipment would lessen to
33 approximately 63 dBA. For context, 60 dBA is the sound of a large store air-conditioning unit (at
34 20 feet) and 65 dBA is the sound from a passenger car at 65 mph (at 25 feet).¹⁸⁰

35
36 The nearest important recreational opportunity is Cold Springs National Wildlife Refuge is 2.4
37 miles from the site boundary. This would be 2.17 miles further than the 1200 feet which would
38 experience the loudest construction noise of 63 dBA. It is highly unlikely that any noise from
39 construction of the facility would be experienced at the Cold Springs National Wildlife Refuge
40 2.4 miles from the site boundary or any other the other important recreational opportunities
41 which are all further away than the Cold Springs NWR.

¹⁸⁰ WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Table Y-2. Adapted from EPA (U.S. Environmental Protection Agency). 1971. Community Noise. NTID300.3 (N-96-01 IIA-231).

1 Operational noise is also evaluated in Section IV.R.1 of this order. Maximum operational noise
2 id modeled based on the maximum noise generating equipment on site. As discussed in that
3 section, the maximum noise that would be experienced at the residence closest to the facility
4 (approximately .25 miles) during the quietest times of the day and night would be 51 dBA.
5

6 Therefore, similar to the noise generated from construction, at the -closest important
7 recreational opportunity, and all the other recreational opportunities further away, it is not
8 anticipated that operational noise would be perceivable at these recreational areas. Therefore,
9 the Department recommends Council find that noise generated from construction and
10 operation of the facility would not impact important recreational opportunities.
11

12 *Traffic Impacts*

13
14 As discussed in Section IV.M., *Public Services*, the primary transportation routes used during
15 construction of the facility would be:
16

17 1. Northern Primary Route -

- 18 -I-82 to US 730 near Sharps Corner
- 19 -US 730 to US-395, also near Sharps Corner
- 20 -US 395 through the City of Hermiston to Feedville Road, north of Stanfield
- 21 -Feedville Road to S. Edwards Road, northeast of Stanfield
- 22 -S. Edwards Road to project site

23 24 2. Southern Primary Route -

- 25 -I-84 to US 395 via exit 188, southeast of Stanfield
- 26 -US 395 to S. Edwards Road, running east of Stanfield to project site

27 28 Construction & Operation

29
30 Cold Springs National Wildlife Refuge – This NWR is located approximately 2.4 Miles of the
31 project but is not located along either of the two primary transportation routes described
32 above. While this NWR can be accessed from the project site via multiple County roads, none of
33 these routes would be convenient for either deliveries or workers accessing the site during
34 operation or construction because it is not directly accessible to any major road. Based on this
35 evaluation, the Department recommends Council conclude that both construction and
36 operational activities will not result in any significant potential adverse traffic impacts to this
37 important recreation resource opportunity.
38

39 Hermiston Butte & Butte Park – Because both of these important recreation resource
40 opportunities have the same transportation entrances, they are being evaluated together. The
41 entrance to both is located approximately .5 miles west of US-395, a major part of the Northern
42 Primary Route, as it goes through the City of Hermiston. Based on this evaluation in the Public
43 Services section of this order, the Department recommends Council conclude that both

1 construction and operational activities will not result in any significant potential adverse traffic
2 impacts to these important recreation resource opportunities.

3

4 Fort Henrietta Park and Campground – The City of Echo is located approximately 1.25 miles
5 south of I-84 exit 188 where the Southern Primary Route goes north to the project site. It is
6 therefore not likely that any deliveries would occur through the City of Echo or in proximity to
7 Fort Henrietta Park and Campground. While it is possible that construction workers could stay
8 in Echo, according to ASC Exhibit U – Public Services, page 15, there is adequate temporary
9 housing available in the broader geographic area. So even if there were some construction
10 workers that found temporary housing in the City of Echo, it would not be enough to impact
11 the transportation patterns that would negatively affect the park and campground. Only three
12 operational staff are anticipated once the project is constructed which is also not enough to
13 generate any impacts to traffic. Based on this evaluation, the Department recommends Council
14 conclude that both construction and operational activities will not result in any significant
15 potential adverse traffic impacts to these important recreation resource opportunities.

16

17 *Potential Visual Impacts*

18

19 The project description in ASC Exhibit B includes the following facility components with the
20 following maximum heights:

- 21 • Solar Modules on Posts – 16’ high
- 22 • Perimeter Fence – 10’ high
- 23 • Battery storage module units – 10’ high
- 24 • Operation and & Maintenance Facility – 30’ high
- 25 • Substation and equipment– 30’ high

26

27 The applicant conducted a zone of visual influence (ZVI) analysis to determine if the proposed
28 facility components could be seen from the four important recreational opportunities within
29 the analysis area. The facility will not generate emissions plumes, so the analysis was conducted
30 based on the proposed physically constructed elements of the project facility listed above.

31

32 Cold Springs National Wildlife Refuge – The applicant states in ASC Exhibit T – Page 14, “a
33 majority of the NWR will not have views of the Project, which at the base is approximately 100
34 feet lower than the Project.” Based on a review of the topographical base layer in the Oregon
35 Renewable Site Assessment online mapping tool¹⁸¹, the NWR site ranges from 510 to 740 feet in
36 elevation with the edge of the reservoir itself at 610 feet in elevation, whereas the site
37 boundary ranges from 680 to 735 feet in elevation. The constructed facility components would
38 add between 10 and 30 feet in height which would make taller ones more visible from the
39 NWR. However, given the 2.4 miles distance, the Department agrees with the applicant’s
40 conclusion that the majority of the NWR will not have views of the project.

¹⁸¹ https://tools.oregonexplorer.info/OE_HtmlViewer/Index.html?viewer=renewable

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As previously indicated the listed purposes of this NWR are:

- “as preserves and breeding grounds for native birds”
- “for use as an inviolate sanctuary, or for any other management purpose, for migratory birds.”

So, even though some of the constructed facility components will be visible from the NWR, the purposes of it are not to maintain views but to maintain an area for native and migratory birds. Based on this analysis, the Department recommends the Council conclude that the proposal will not result in any significant potential adverse visual impacts to this important recreation resource opportunity.

Hermiston Butte – The applicant states in ASC Exhibit T – Page 15, “a majority of the Butte will not have views of the Project, which at the base is approximately 200 feet lower than the Project. However, at the summit, there will be an approximate 70-foot difference in elevation between the Butte and the facility, which, based on the viewshed analyses, could generate limited views of the solar arrays (Figure T-2 and Exhibit R).” Based on a review of the topographical base layer in the Oregon Renewable Site Assessment online mapping tool¹⁸² the butte ranges from 500 feet elevation at its base to 597 feet elevation at its top whereas the site boundary ranges from 680 to 735 feet in elevation. As previously indicated, the constructed facility components would add between 10 and 30 feet in height which would make taller ones more visible from the Hermiston Butte. As previously stated, while the top 7 acres of Hermiston Butte are owned by the BLM, the applicant did not provide, and the Department could not find, a BLM management plan. Therefore, there is no information to show Hermiston Butte is managed to preserve views of the surrounding landscape.

Based on the elevation differences, the distance of 4.2 miles between Hermiston Butte and the site boundary, the intervening urban and agricultural uses the Department recommends the Council conclude that the proposal will not result in any significant potential adverse visual impacts to this important recreation resource opportunity.

Butte Park – Based on a review of the topographical base layer in the Oregon Renewable Site Assessment online mapping tool¹⁸³ Butte Park ranges from 480 to 500 feet elevation whereas the site boundary ranges from 680 to 735 feet in elevation. Even with the constructed facility components reaching an additional 30 feet in height, given that the park is surrounded by urban development, is approximately 200 feet lower in elevation than the site boundary, which is 4.1 miles away, the Department agrees with the applicant’s conclusion in Exhibit T – Page 14 that the project will not be visible from this important recreational opportunity due to distance and terrain.

¹⁸² IBID
¹⁸³ IBID

1 Fort Henrietta Park and Campground (4.9 Miles) – Based on a review of the topographical base
2 layer in the Oregon Renewable Site Assessment online mapping tool¹⁸⁴ Fort Henrietta Park and
3 Campground is at 603 feet elevation whereas the site boundary ranges from 680 to 735 feet in
4 elevation. Even with the constructed facility components reaching an additional 30 feet high,
5 given that the park and campground is surrounded by urban development, is approximately
6 100 feet lower in elevation than the site boundary, which is 4.9 miles away, the Department
7 agrees with the applicant’s conclusion in Exhibit T – Page 14 that the project will not be visible
8 from this important recreational opportunity due to distance and terrain.

9
10 **Conclusions of Law**

11
12 Based on the foregoing recommended findings of fact, the Department recommends that the
13 Council find that the design, construction and operation of the proposed facility would not be
14 likely to result in a significant adverse impact to any important recreational opportunities in the
15 analysis area and therefore the proposed facility would comply with the Council’s Recreation
16 standard.

17
18 **IV.M Public Services: OAR 345-022-0110**

19
20 *(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the*
21 *Council must find that the construction and operation of the facility, taking into account*
22 *mitigation, are not likely to result in significant adverse impact to the ability of public*
23 *and private providers within the analysis area described in the project order to provide:*
24 *sewers and sewage treatment, water, storm water drainage, solid waste management,*
25 *housing, traffic safety, police and fire protection, health care and schools.*

26
27 *(2) The Council may issue a site certificate for a facility that would produce power from*
28 *wind, solar or geothermal energy without making the findings described in section (1).*
29 *However, the Council may apply the requirements of section (1) to impose conditions on*
30 *a site certificate issued for such a facility.*

31 ***¹⁸⁵

32 **Findings of Fact**

33
34 The Council’s Public Services standard requires the Council to find that the proposed facility is
35 not likely to result in significant adverse impacts on the ability of public and private service
36 providers to supply sewer and sewage treatment, water, stormwater drainage, solid waste
37 management, housing, traffic safety, police and fire protection, health care, and schools.
38 Pursuant to OAR 345-022-0110(2), the Council may issue a site certificate for a facility that
39 would produce power from solar energy without making findings regarding the Public Services

¹⁸⁴ IBID

¹⁸⁵ OAR 345-022-0110(3) does not apply to this ASC because the proposed facility would not meet the criteria for a special criteria facility as defined in ORS 469.373(1).

1 standard; however, the Council may impose site certificate conditions based upon the
2 requirements of the standard.

3
4 The analysis area for potential impacts to public services from construction and operation of
5 the proposed facility is the area within and extending 10-miles from the site boundary. Based
6 on the analysis area, the following evaluation assesses potential impacts to public and private
7 providers within Umatilla County and the cities of Hermiston, Stanfield, Echo, and Umatilla.

8
9 *Important Assumptions used in Applicant's Impact Assessment*

10
11 Assumptions relied upon by the applicant to evaluate potential impacts from proposed facility
12 construction and operation to private and public service providers are summarized below:

13

14 *Construction Assumptions*¹⁸⁶

15

- 16 • Construction anticipated to take 9-12 months, with an average of 24 working days per
17 month.¹⁸⁷
- 18 • Average number of construction workers would be 300 people, while the maximum
19 number of workers during peak construction months would not be more than 500
20 people.
- 21 • 15 percent of workers would be hired locally by contractors or subcontractors.¹⁸⁸
- 22 • 60 percent of workers would commute from up to 70 miles away from the proposed
23 facility.¹⁸⁹
- 24 • 25 percent of workers would require temporary housing in the analysis area.¹⁹⁰
- 25 • Estimated maximum haul and delivery trip rate would 90 one-way trips per day and
26 maximum worker daily trip rate would be 800 one-way trips.

27

28 *Operation Assumptions*¹⁹¹

29

- 30 • Operated remotely, aside from periodic site visits from operational maintenance and
31 repair personnel.
- 32 • Two to five workers would be deployed to the site when necessary for maintenance.

¹⁸⁶ Applicant details assumptions about the labor force that includes its assessment under the Public Services standard. The Department notes that these assumptions do not guarantee the assumptions are correct.

¹⁸⁷ Under Recommended General Standard of Review Condition 1, the Department recommends the applicant be allotted two years to complete construction after construction has begun, so construction of the proposed facility could last up to 24 months. WESAPDoc3-21 ASC Exhibit U Public Services 2022-09-28, Section 3.2.4.

¹⁸⁸ 15 percent of average workforce hired locally would be 45 people and maximum workers would be 75.

¹⁸⁹ 60 percent of average workforce commuting would be 180 workers and maximum commuters would be 300.

¹⁹⁰ 25 percent of average workforce needing temporary housing would be 75 workers and the maximum would be 125 workers.

¹⁹¹ Applicant details assumptions about the labor force that includes its assessment under the Public Services standard. The Department notes that these assumptions do not guarantee the assumptions are correct.

- Operations staff , positions that require previous experience working at solar facilities, may be hired from non-local areas.

IV.M.1 Sewers and Sewage Treatment

Construction and operation of the proposed facility would generate sanitary waste. As discussed in ASC Exhibit U, there would be no permanent restroom facilities and associated underground septic systems onsite at the O&M building. All sanitation waste would be managed via portable toilets which would be managed by a licensed subcontractor, who would be responsible for servicing the toilets at regular intervals, transporting, and disposing of wastewater in accordance with local and jurisdictional regulations.¹⁹² The proposed facility would not rely on or require use of existing public or private sewer system or connection to a sewage treatment facility, other than to have the licensed contractor dispose of sanitation waste, therefore, the Department recommends that the Council find that the proposed facility would not be likely to result in significant adverse impacts to public and private supplies of sewers and sewage treatment.

IV.M.2 Water Service

Proposed facility construction would use approximately 12.8 million gallons of water for dust suppression, road construction and site preparation, installation of collector lines, mixing concrete for foundations, and fire risk mitigation.¹⁹³ During construction one of the primary drivers for water use is to control dust. Dust is generated from the construction equipment that would cut, move, and compact the subgrade surface; as well as decompaction and final grading for site revegetation. The applicant explains that water trucks would be used to control dust generation in all disturbed areas during road construction, foundation installation, final cleanup, reclamation, and restoration by patrolling the site to control dust up to as one pass per hour, wetting down disturbed and exposed soils. During construction, water may also be used for fire prevention, which would involve stationing a water truck at the job site to keep the ground and vegetation moist to be prepared for extreme fire conditions.

As discussed in Section IV.R.3., *Water Rights*, the applicant or the applicant’s third-party construction contractor would obtain construction water from the City of Hermiston under an existing municipal water right. The applicant provides correspondence from the City’s Water Superintendent as ASC Exhibit O, Attachment O-1. In correspondence from the City indicates that, under normal conditions, the City would be able to provide water for the proposed facility construction and operation.

The applicant estimates that the solar modules (panels) would need to be washed twice a year which would use approximately 1.65 Mgal per year during operations.¹⁹⁴ Operational water

¹⁹² WESAPPD03-23 ASC Exhibit W Waste 2022-09-28, Section 2.2.1

¹⁹³ WESAPPD03-21 ASC Exhibit U Public Services 2022-09-28, Section 3.2.2.

¹⁹⁴ WESAPPD03-21 ASC Exhibit U Public Services 2022-09-28, Section 3.4.2.2.

1 would be trucked in and retained from the City of Hermiston. Employee drinking water would
2 be supplied by bottled water and portable toilets would be used for sanitation during
3 operations, therefore, these water uses would not impact public or provide service providers of
4 water.

5
6 Based upon review of the correspondence from the City affirming its ability to meet proposed
7 facility construction and operational water demand under its existing water permits, the
8 Department recommends that the Council find that the construction and operation of the
9 proposed facility are not likely to result in significant adverse impacts to the ability of public or
10 private providers to provide water service.

11
12 IV.M.3 Stormwater Drainage

13
14 Construction and operation of the proposed facility could potentially impact rural stormwater
15 management systems. Stormwater management systems include pervious surfaces that allow
16 rainfall and snowmelt to percolate into soils to refill aquifers, streams, or rivers. Stormwater
17 management systems also include infrastructure to direct and store stormwater such as
18 culverts, catch basins, storm sewers and piping, as well as holding ponds and drainage ditches.
19 The proposed facility would not require use of or interconnection to a publicly or privately
20 managed stormwater system.¹⁹⁵

21
22 New roads constructed would be designed to maintain existing drainage patterns and
23 stormwater generated is anticipated to infiltrate into the soil. As further discussed in Section
24 IV.D., *Soil Protection*, a typical DEQ-issued 1200-C Construction Stormwater Discharge General
25 Permit is not necessary for the construction of this facility because of the lack of waters of the
26 state on-site, however, the applicant proposes and the Department recommends under
27 Recommended Soil Protection Condition 1, an erosion and sediment control best management
28 practices (BMPs) which are included in Attachment I-1, Erosion Sediment Control Measures.
29 These would help reduce any stormwater runoff and include:

- 30
- 31 • Grading will be minimized to the maximum extent practicable and existing vegetation
 - 32 preserved where practical.
 - 33 • BMPs for erosion, including perimeter controls (e.g., silt fence), soil stabilization (e.g.,
 - 34 mulching or tackifiers).
 - 35 • Fugitive dust from truck traffic will be minimized by applying water to access roads and
 - 36 by keeping paved public rights-of-way (ROW) clean or wet down.
- 37

38 Operational activities associated with maintaining the facility are not anticipated to cause
39 stormwater runoff because permanent roads would be used for vehicle access and the site is
40 anticipated to maintain existing drainage patterns.

41

¹⁹⁵ WESAPPD03-21 ASC Exhibit U Public Services 2022-09-28, Section 3.3.3.

1 Because the proposed facility would not interconnect to or require use of existing public or
2 private stormwater drainage systems and the applicant proposes BMP's to mitigate potential
3 impacts to existing stormwater drainage and erosion, the Department recommends Council
4 find that construction and operation of the proposed facility would not be likely to result in
5 significant adverse impacts to the ability of stormwater drainage service providers to provide
6 service.

7 IV.M.4 Solid Waste Management
8

9 Proposed facility construction and operation would result in the generation of solid waste.
10 Construction-related solid waste would include approximately one 40-cubic yard roll-off per
11 week, comprised of scrap steel, packaging materials and erosion control materials (e.g., silt
12 fencing and straw wattles), waste concrete, and excavated soil.¹⁹⁶ Construction material and
13 office recycling programs would be implemented to the extent practical to reduce the volume
14 of material that would be disposed of as solid waste, which is discussed further in Section IV.N.,
15 *Waste Minimization*. Any non-recyclable waste would be disposed of offsite, hauled by a
16 licensed sanitary service provider and disposed of in a landfill, discussed below.

17
18 During operations, the primary waste generated would be solid waste from maintenance and
19 ongoing operational activities. The applicant estimates approximately two yards of solid waste
20 would be generated per month.¹⁹⁷ Waste such as universal waste (for example, lightbulbs and
21 batteries) would be recycled according to applicable regulations. The solar panels would be
22 replaced on an ongoing and as-needed basis depending on any operational issues incurred. The
23 lithium-ion batteries would need to be changed approximately every 10 years, where the self-
24 contained battery components would be removed and disposed of or recycled by a qualified
25 vendor or contractor.

26
27 The closest regional landfill to the facility is the Finley Buttes Regional Landfill, located
28 approximately 12 miles south of Boardman, Oregon. The landfill is owned and operated by
29 Waste Connections, Inc. and was opened in 1990 with a planned closure date of 2242.
30 According to Clark County Washington data, the Finley Buttes Landfill has a capacity of
31 131,895,000 tons of municipal solid waste and receives approximately 500,000 tons of
32 municipal soil waste a year.¹⁹⁸ The other regional waste handling facility is the Columbia Ridge
33 Landfill, which is located near the town of Arlington in Gilliam County, Oregon, located
34 approximately 60 miles from the facility.

35
36 ASC Exhibit U, Attachment U-1 provides correspondence with the Columbia Ridge Landfill, in
37 which representatives from the landfill indicate that the landfill has adequate capacity to
38 receive the waste generated from construction and operation of the facility. Finley Buttes
39 Regional Landfill is closer to the facility site and would likely be used for frequent disposal of
40 waste, and as the second largest landfill in Oregon, receiving 500,000 tons of waste per year,

¹⁹⁶ WESAPPD03-23 ASC West End Solar Exhibit W Waste 2022-09-28, Section 2.1.1.

¹⁹⁷ WESAPPD03-23 ASC West End Solar Exhibit W Waste 2022-09-28, Section 2.1.2.

¹⁹⁸ WESAPPD03-23 ASC West End Solar Exhibit W Waste 2022-09-28, Section 3.3.4.

1 the Department recommends Council find that the ability of this waste service provider would
2 not be impacted by construction and operation of the facility.¹⁹⁹

3
4 The Department recommends Council impose Waste Minimization Conditions 1 and 2 under
5 the Waste Minimization standard (see Section IV.N., *Waste Minimization*, of this order), which
6 would require the applicant to implement plans that would reduce waste and that would
7 encourage the reuse and recycling of waste generated during construction and operation of the
8 facility. These conditions would lessen the waste that would be disposed of at the regional
9 landfills. Therefore, based on the quantity and type of solid waste generated by the proposed
10 facility, existing and long-term capacity of the Columbia Ridge and Finley Buttes Regional
11 Landfills, and compliance with the recommended waste minimization conditions, the
12 Department recommends Council find that construction and operation of the facility would not
13 be likely to result in significant adverse impacts to the ability of solid waste disposal providers
14 to dispose generated waste.

15
16 *IV.M.5 Traffic Safety*

17
18 Construction of the proposed facility would result in traffic impacts from the increased traffic
19 and congestion resulting from delivery trucks, equipment, and workers travelling to and from
20 the facility site. Public providers related to transportation would be the Oregon Department of
21 Transportation (ODOT) for state highways, local and state police Departments for traffic safety,
22 and the Umatilla County Public Works/Road Department because they manage road conditions,
23 maintenance, and improvements.

24
25 Applicant assumes and estimates that 15 percent of workers would be hired locally. The
26 remaining 85 percent of the workforce would be anticipated to be from other parts of the state
27 or from out-of-state and would either commute daily from communities outside the analysis
28 area or would temporarily relocate to the vicinity of the proposed facility. Peak construction
29 periods would result in approximately 500 workers onsite. Most workers would drive alone;
30 vehicle trips per day are based on an assumed 1.25 occupancy rate. Estimated maximum
31 worker daily trip rate would be 400 round trips and 800 one-way trips. Estimated maximum
32 haul and delivery trip rate would be 45 round trips and 90 one-way trips per day.²⁰⁰ Total
33 maximum daily construction-related traffic would be approximately 890 one-way trips and 445
34 round trips.

35
36 Throughout construction the 90 one-way truck trip and deliveries would include the following
37 activities:

- 38 • Delivery of civil construction and materials (sand, aggregate, and cement) for new roads,
39 laydown areas, and equipment pads/foundations for substation and inverters.

¹⁹⁹ https://chptap.ornl.gov/profile/78/FinleyButtesLandfill-Project_Profile.pdf. Accessed 10-18-2022.

²⁰⁰ WESAPPD03-21 ASC Exhibit U Public Services 2022-09-28, Section 3.2.4. Worker vehicles trips would occur in the early morning and evenings, whereas equipment and haul truck traffic would occur throughout the day, therefore the applicant does not anticipate worker and truck traffic to overlap significantly.

- 1 • Heavy duty trucks to deliver solar modules and related equipment delivery, including
2 racking system structure, electrical wiring/cabling and equipment, steel posts, inverters,
3 and transformers;
- 4 • Substation component delivery, including the main power transformer, circuit-breakers,
5 electrical buses and insulators, disconnect switches, control enclosure, metering and
6 control equipment, grounding, and associated control wiring, and all related equipment
7 based on the final design;
- 8 • Energy Storage System (ESS) delivery, including containers, battery modules, and related
9 equipment;
- 10 • Delivery of on-site construction equipment such as cranes, dozers, graders, compactors,
11 forklifts, etc.; and
- 12 • Light-duty delivery trucks would deliver water and would be used to apply water for
13 dust suppression as well as delivering electrical equipment and materials required for
14 solar panel construction and power transmission.
- 15 • Heavy-duty trucks carry gravel and other materials required for site grading and to
16 construct the new site access road segments.

17
18 The primary transportation highway corridors that would be used are I-82, I-84, and US-395.
19 For deliveries and workers arriving from the northern transportation route via I-82, the route
20 would use a short section of US-730 to access US-395 and from there would take Country Road
21 (CR) 1000 east (Feedville Road) from US-395, to S. Edwards Road north. For deliveries and
22 workers arriving from the southern transportation route via I-84 (east or west), access would be
23 anticipated to be from I-84 exit 188 to US-395, and then to S. Edwards Road. The main access
24 point to the facility site is anticipated to be located off of S. Edwards Road near the proposed
25 substation. A new driveway off of S. Edwards Road would be required at the access point and
26 would be constructed to Umatilla County standards, which is discussed further in Section IV.E.,
27 *Land Use*.

28
29 According to ODOT, interstate highways, US-395, and US-730 are designated as freight routes
30 by the Amended Oregon Freight Plan, which have specific standards for roadway section
31 widths, median barriers, and intersection design and there are no weight restricted bridges
32 along the two primary transportation routes.²⁰¹ Feedville Road and South Edwards Road are
33 both paved County roads; however, current pavement condition of these roads is unknown.
34 Umatilla County requires a Road Use Agreement for certain proposed uses to ensure that any
35 impacts to County roads caused by construction activities are mitigated/repared by the
36 developer, which is discussed further below.

37
38 The Umatilla County Transportation System Plan (Umatilla County TSP) estimates that the
39 average daily traffic (ADT) volumes for local roads is 500 ADT, county roads which include rural
40 county roads is below 1,000 ADT, and heavier use county/collector roads, such as Feedville
41 Road, is between 1,200 and 10,000 ADT. The Umatilla County TSP explains that some county
42 roads serve only local uses, yet other county roads serve rural needs such as providing

²⁰¹ WESAPDoc3-21 ASC Exhibit U Public Services 2022-09-28, Section 3.3.6.

1 connections to higher functioning facilities such as a state highway or interstate freeway,
2 accessing large businesses in rural areas, and accessing rural communities and farms, and these
3 types of roads are considered to be of higher importance to Umatilla County.²⁰²

4
5 Table 13: *Facility Construction Traffic Impacts to Area Highways* and Table 14: *Facility*
6 *Construction Traffic Impacts to County Roads* summarize the applicant’s analysis of impacts on
7 surrounding roads from construction traffic. The analysis for both types of highways and roads
8 uses the Average Annual Daily Traffic (AADT) as designated by ODOT and by the Umatilla
9 County TSP as an acceptable traffic range for designated roads. The applicant incorporates the
10 Level of Service (LOS) and the volume to capacity (V/C) ratio for facility access roads to
11 determine the magnitude, if any, of impacts to roads. The Umatilla County TSP defines LOS by a
12 letter grade from A to F, with each grade representing a range of V/C ratios. A V/C ratio is the
13 peak hour traffic volume on a highway divided by the maximum volume that the highway can
14 handle, where a V/C ratio of 0.0 indicates free-flowing traffic (LOS A) while a V/C of 1.0
15 indicates a breakdown in vehicular flow (LOS F).²⁰³ For instance, according to the Umatilla
16 County TSP a LOS “A” rating would have an equivalent V/C ratio of 0.00 to 0.48, which is
17 associated with traffic flow conditions where motorists are able to drive at their desired speed
18 and passing demand is well below passing capacity, and almost no platoons of three or more
19 vehicles are observed.

20
21 The assumptions integrated into the applicant’s traffic impact assessment are provided in the
22 footnotes in the Tables and include the assumption that some roads will only carry 40 or 60
23 percent of the maximum construction-related traffic (890 one-way trips) because workers and
24 delivers would originate from different areas outside the analysis area and thus, travel to the
25 site using different routes. Highways used to support construction-related traffic would remain
26 at or near their existing V/C ratio and would not experience a lower level of service due to
27 construction traffic. County roads nearest to the facility site would experience an increase in
28 V/C ratios from an existing range of 0.10 to 0.25 to an anticipated range of 0.14 to 0.30,
29 however, the LOS is not anticipated to diminish and would remain at an A grading. The
30 Department highlights that according to the Umatilla County TSP, the ADT for these important
31 country roads is 1,001 to 2,500 and construction traffic increase is anticipated to be 1,535 to
32 3,034 AADT, which is within and above the existing range. However, because the V/C ratio is
33 still below 0.48, which is associated with a traffic flow LOS rating of “A”, and the applicant
34 would deploy the best management practices to avoid, minimize and mitigate impacts from
35 construction traffic discussed below, the Department recommends that construction-related
36 traffic would not impact the ability of public and private providers of traffic safety services.

37
38

²⁰² Umatilla County 2002 Transportation System Plan, Table 4-3: Important County Roads.
https://www.co.umatilla.or.us/fileadmin/user_upload/Planning/Umatilla_County_TSP_June_02.pdf Accessed on
03-01-2022.

²⁰³ WESAPDoc3-21 ASC Exhibit U Public Services 2022-09-28, Section 3.3.6.1.

Table 13: Facility Construction Traffic Impacts to Area Highways

Location	Existing AADT (2019 ¹)	Estimated Current LOS ²	Estimated Existing V/C ^{3,4}	Facility Construction Traffic (Peak Trips Per Day, One-Way) ⁶			AADT with Facility Traffic	Projected V/C with Peak Construction Traffic ^{5,4}	Projected LOS with Peak Construction Traffic
				Total Peak Trips	Worker Traffic	Truck Traffic			
I-82 – Umatilla Bridge ATR Station 30-025	21,600	A	0.17	356 ⁷	320	36	21,956	0.17	A (no change)
I-84 - 2.56 miles east of US 395 interchange	17,300	B	0.51	534 ⁸	480	54	17,834	0.52	B (no change)
US-395 – 0.02 miles north of Gladys Ave/OR-207 (located within UGB)	19,300	C/D	0.72	356 ⁷	320	36	19,656	0.73	C/D (no change)
US-395 – Stanfield ATR Station 30-019 (0.12 miles north of Feedville Rd)	8,200	A	0.30	356 ⁷	320	36	8,556	0.32	A (no change)
US-395 – 0.5 miles north of I-84 interchange	8,600	A	0.32	534 ⁸	480	54	9,134	0.34	A (no change)
US-730 - 0.5 miles east of I-82 interchange	12,400	A	0.46	356 ⁷	320	36	12,756	0.47	A (no change)

1. Data from ODOT (2019).
 2. Based on estimated volume to capacity (V/C) and equivalent level of service (LOS) as presented in Table U-5.
 3. Estimated by dividing existing annual average daily traffic (AADT) by the maximum ADT of the federal functional class for the applicable highway segment (from Table U-6).
 4. Segments below maximum ODOT V/C ratios in Table U-4.

Table 13: Facility Construction Traffic Impacts to Area Highways

Location	Existing AADT (2019 ¹)	Estimated Current LOS ²	Estimated Existing V/C ^{3,4}	Facility Construction Traffic (Peak Trips Per Day, One-Way) ⁶			AADT with Facility Traffic	Projected V/C with Peak Construction Traffic ^{5,4}	Projected LOS with Peak Construction Traffic
				Total Peak Trips	Worker Traffic	Truck Traffic			
5. Estimated by dividing projected annual average daily traffic (AADT) by the maximum ADT of the federal functional class for the applicable highway segment (from Table U-6). 6. One-way trips are counted to tally both the inbound and outbound trips for Project traffic (i.e., round-trip count would be half of total one-way trips). 7. Assumes 40 percent of construction traffic will use road. 8. Assumes 60 percent of construction traffic will use road. Source: ASC Exhibit WESAPDoc3-21 ASC Exhibit U Public Services 2022-09-28, Table U-7.									

1

Table 14: Facility Construction Traffic Impacts to County Roads

Location	Existing AADT Range (2021 ¹)	Estimated Current LOS ²	Estimated Existing V/C ³	Facility Construction Traffic ⁵			AADT with Facility Traffic	Projected V/C with Peak Construction Traffic ⁴	Projected LOS with Peak Construction Traffic
				Total Peak Trips per day, one-way	Worker Traffic, peak trips per day, one-way	Truck Traffic, peak trips per day, one-way			
Feedville Road	1,001 to 2,500	A	0.10 to 0.25	356 ⁶	320	36	1,357 to 2,856	0.14 to 0.29	A (no change)
S. Edwards Road	1,001 to 2,500	A	0.10 to 0.25	534 ⁷	480	54	1,535 to 3,034	0.15 to 0.30	A (no change)
1. Data from ODOT (2021). 2. Based on estimated volume to capacity (V/C) and equivalent level of service (LOS) as presented in Table U-5. 3. Estimated by dividing existing annual average daily traffic (AADT) by the maximum vehicles per day for major and minor collector roads per TSP (Umatilla County 2002). 4. Estimated by dividing projected annual average daily traffic (AADT) by the maximum vehicles per day for major and minor collector roads per TSP (Umatilla County 2002). 5. One-way trips are counted to tally both the inbound and outbound trips for Project traffic (i.e., round-trip count would be half of total one-way trips). 6. Assumes 40 percent of construction traffic will use road. 7. Assumes 60 percent of construction traffic will use road.									

Table 14: Facility Construction Traffic Impacts to County Roads

Location	Existing AADT Range (2021 ¹)	Estimated Current LOS ²	Estimated Existing V/C ³	Facility Construction Traffic ⁵			AADT with Facility Traffic	Projected V/C with Peak Construction Traffic ⁴	Projected LOS with Peak Construction Traffic
				Total Peak Trips per day, one-way	Worker Traffic, peak trips per day, one-way	Truck Traffic, peak trips per day, one-way			
Source: ASC Exhibit WESAPDoc3-21 ASC Exhibit U Public Services 2022-09-28, Table U-8.									

1

1
2 The Umatilla County TSP designates road design standards for county roads including arterial,
3 major and minor collector, and local roads, which include surface width, speed limits, pavement
4 or gravel standards, and shoulder width. The applicant represents that at the design stage for
5 the proposed facility, a careful inspection of county roads used for construction and operation
6 of the proposed facility would be required to determine where and what improvements would
7 be needed to be made so that roads would be serviceable for construction traffic. To ensure
8 that road improvements are done consistent with current Umatilla County codes and
9 standards, the applicant represents that it would cooperate with the Umatilla County Public
10 Works Department to obtain permits to improve the roads and also to make repairs to roads
11 that might be damaged from construction traffic. In addition, the applicant would enter into
12 road use agreements with Umatilla County, to ensure that public roads impacted by
13 construction would be left in as “good or better” condition than that which existed prior to the
14 start of construction.

15
16 Based on other road use agreements reviewed by EFSC and the Department, the Department
17 understands that provisions typical of road use agreements between an applicant and a County
18 or its Public Works Department includes, but is not limited to:

- 19 • Applicant responsibility to identify final transportation routes based on final design;
- 20 • Conduct pre-construction road inventory that identifies the condition of all roads used
21 during construction;
- 22 • Applicant responsibility to pay for road improvements necessary for construction as well
23 as any necessary road repairs caused from construction of the proposed facility;
- 24 • Applicant shall maintain roads to County standards which include the ability for the
25 public and emergency services to access and use roads; and
- 26 • Conduct post-construction inventory to compare with pre-construction to negotiate all
27 necessary improvements that must be made to roads.

28
29 The applicant states that a component of road use agreements would be a traffic management
30 plan which would be employed by its construction contractor and would provide best
31 management practices (BMP’s) to minimize traffic impacts due to construction traffic
32 congestion, flagging needs, road closures, and large equipment and deliveries. All BMPs are
33 listed in their entirety in Attachment U-1, a draft Traffic Management Plan, some of which
34 include:

- 35 • Encouraged construction worker carpooling.
- 36 • Construction manager will provide construction schedules to adjacent landowners prior
37 to start of construction and will work with adjacent landowners on mitigating any traffic
38 impacts to harvest time activities.
- 39 • Posting signs on county- and state-maintained roads, where appropriate, to alert
40 motorists of construction and warn them of slow, merging, or oversize traffic.
- 41 • Using traffic control measures such as traffic control flaggers, warning signs, lights, and
42 barriers during construction to ensure safety and to minimize localized traffic

1 congestion. These measures will be required at locations and during times when trucks
2 will be entering or exiting highways frequently.

- 3 • Restoring residential areas as soon as possible, and fencing construction areas near
4 residences at the end of the construction day.

5
6 The Department compiled all applicant-representations for avoiding, minimizing and mitigating
7 impacts related to construction traffic for the proposed facility into a draft Traffic Management
8 Plan (Plan) which is attached to this order as Attachment U-1. To ensure that construction and
9 operation of the proposed facility is not likely to result in significant adverse impacts on the
10 ability of public and private service providers for traffic safety including impacts to roads and
11 traffic flow, the Department recommends Public Services Conditions 1 and 2, which require the
12 finalization of the Plan, submission of final road use agreements, and adherence to the final
13 Traffic Management Plan during construction. The Department understands that it is likely that
14 the applicant or its construction contractor may have its own Traffic Management Plan, which
15 may be provided if it, at a minimum, includes the provisions in the draft Traffic Management
16 Plan, Attachment U-1.

17
18 **Recommended Public Services Condition 1 (PRE):** Prior to construction of the facility, or
19 facility component, as applicable, the certificate holder shall:

- 20 a. Based on final design, finalize, identify, and provide maps of all public roads used for
21 construction, road names, locations, and road conditions and include in Final Traffic
22 Management Plan identified in (b) and (c).
- 23 b. Submit executed road use agreements between Umatilla County and the certificate
24 holder or its contractor. Any Final Traffic Management Plan that is part of the road use
25 agreements shall include, at a minimum, the provisions designated in Section II of
26 Attachment U-1 of the Final Order on ASC.
- 27 c. If a Final Traffic Management Plan designated in sub (a) is not included in road use
28 agreements executed with Umatilla County, then submit a Final Traffic Management
29 Plan. A copy of the Final Traffic Management Plan shall be provided to the Department
30 and Umatilla County Public Works Department. The Construction Traffic Management
31 Plan shall, at a minimum, include the provisions in Section II of Attachment U-1 of the
32 Final Order on ASC.
- 33 d. Submit to the Department, any ODOT permits obtained by the certificate holder, its
34 third-party contractors or subcontractors including but not limited to Oversize Load
35 Movement Permit/Load Registration, Permit to Occupy or Perform Operations Upon a
36 State Highway, and/or an Access Management Permit.
- 37 e. Submit to the Department, any county permits obtained by the certificate holder, its
38 third-party contractors or subcontractors including but not limited to utility crossing
39 permit and road approach permit.

40
41 **Recommended Public Services Condition 2 (CON):** During construction of the facility, or
42 facility component, the certificate holder shall ensure that construction contractors adhere
43 to the requirements of the Final Traffic Management Plan.

1 Proposed facility operation is anticipated to require two to five employees would be
2 periodically onsite for operation and maintenance activities. These employees would use the
3 same roads that would be used by the construction workforce. Occasionally during operations,
4 specialty contractors would travel from farther areas to handle major repairs, however, the
5 Department recommends that operational traffic generation would be minimal and is not
6 anticipated to impact traffic operations or roadways.

7
8 IV.M.6 Air Traffic
9

10 Proposed facility construction and operation could result in impacts to navigable airspace from
11 taller structures located in proximity to public and private airports, potential solar panel glare,
12 and outdoor light illumination. The tallest facility structures would be the collector substation
13 and switchyard substation which both would be approximately 30 feet high and the
14 interconnection poles at the switchyard substation which would be the approximate height of
15 the existing transmission line/poles that the proposed facility would interconnect with. The
16 O&M building would be approximately 20 feet high and the solar arrays, at maximum tilt would
17 be 16 feet tall. The nearest public airport is the Hermiston Municipal Airport, located 1.5 miles
18 northwest of the proposed facility.²⁰⁴

19
20 To assess the potential for impacts to navigable air space, ASC Exhibit U includes determination
21 letters obtained from the Oregon Department of Aviation (ODA) indicating that ODA conducted
22 an aeronautical study of the proposed facility buildings and solar array configurations. ODA
23 evaluates standards in CFR: *Title 14. Aeronautics and Space: PART 77—Safe, Efficient Use, and*
24 *Preservation of the Navigable Space*, similar to the Federal Aviation Administration (FAA). ODA
25 determined that notice to the FAA Form (7460-1) is required, because the structures exceed
26 FAR Part 77.9 (a, b or c) and Obstruction Standards of OAR 738-70-0100, which would be from
27 the proximity to a municipal airport. The determination also concluded that ODA does not
28 object to the construction described in this proposal, but that the determination does not
29 constitute ODA approval or disapproval of the physical development involved in the proposal. It
30 is a determination with respect to the safe and efficient use of navigable airspace by aircraft
31 and with respect to the safety of persons and property on the ground.²⁰⁵ The determinations
32 from ODA expire 18 months after the effective date, April 06, 2022.²⁰⁶ To ensure that potential
33 impacts to the public air traffic providers is avoided, Recommended Public Services Condition 3
34 below, the Department recommends the applicant re-submit the facility data to ODA prior to
35 construction if the ODA determination has expired.

36
37 As noted by ODA and as provided in ASC Exhibit U the applicant includes FAA Determinations of
38 No Hazard to Air Navigation (Form 7460-1) obtained by the applicant, which confirms that FAA
39 conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and

²⁰⁴ The proposed facility would be located approximately 1.5 miles southeast of Hermiston Municipal Airport.

²⁰⁵ WESAPDoc3-21 ASC Exhibit U Public Services 2022-09-28, Attachment U-4_2022-ODA-S-227-230-OE
Determination Letter - Solar Arrays.

²⁰⁶ ODA determination would expire on or around October 6, 2023.

1 applicable Title 14 of the Code of Federal Regulations (CFR), part 77, and finds that proposed
2 facility structures would not exceed obstruction standards and would not be a hazard to air
3 navigation. There are four determinations for solar panel configurations, the O&M building, and
4 the substation. The FAA determinations expire November 3, 2023. The FAA’s Determinations of
5 No Hazard to Air Navigation, also require the submission of a Supplemental Notice of Actual
6 Construction or Alteration form (Form 7460-2) to FAA is required within 5 days after
7 construction reaches its greatest height as specified in the No Hazard/Determination. The
8 applicant indicates that if the final design of the proposed facility requires additional submittals
9 of form 7460-1 to the FAA and the ODA to account for a revised layout/locations of
10 infrastructure or revised heights, the applicant would provide a record of all correspondence
11 with FAA and ODA to the Department no less than 30 days prior to construction.²⁰⁷ The
12 applicant indicates it corresponded with Community Planning & Liaison Officer with the Navy
13 who indicated that “the proposed project appears to be located several miles outside of
14 military training and operating areas.”²⁰⁸
15

16 To ensure that, based on final design, proposed facility construction and operation would not
17 be likely to impact private and public air traffic (airport) providers from impacts to navigable
18 airspace, as well as to reflect the applicant-representations for FAA and ODA coordination, and
19 to ensure that valid ODA and FAA determinations are obtained prior to construction, the
20 Department recommends Council impose the following condition:
21

- 22 **Recommended Public Services Condition 3 (PRE):** If prior to construction, the Oregon
23 Department of Aviation’s (ODA) Determinations for the facility expire, the certificate holder
24 shall:
- 25 a. First, submit to and receive responses from the ODA of 7460-1 Notice of Proposed
26 Construction or Alteration Forms for all aboveground facility components. The
27 certificate holder shall provide copies of ODA’s responses, which must be consistent
28 with ORS 836.535(2), to the Department. Certificate holder shall respond to ODA
29 recommendations, if applicable.
 - 30 b. Second, once ODA responses on the 7460-1 forms are received and if the FAA
31 determinations have expired, submit to and receive determinations from the Federal
32 Aviation Administration (FAA) for all aboveground facility components. The certificate
33 holder shall provide copies of FAA determinations to the Department.
 - 34 c. Within 5-days of construction, certificate holder shall submit 7460-2 forms to FAA and
35 ODA and shall report both timing of submission and any results to the Department.

²⁰⁷ OAR 738-070-0060 outline procedures for submitting notice to ODA of construction or alteration of structures with height and distance to airport limits. ORS 836.535 restricts hazards to air navigation, however, ORS 836.535(2) exempts entities who receive approval from the FAA or EFSC from the statute. Nevertheless, under OAR 345-001-0010(51)(i), ODA is a reviewing agency for EFSC and requests consultation with them prior to submission data to FAA to incorporate any feedback ODA may provide on a facility.

²⁰⁸ WES Email from Navy with comment 2021-12-10. The Department of Defense, including the U.S. Navy, are not designated as reviewing agencies under OAR 345-001-0010(51) and military airports and airways are not designated under the scope of the Public Services standard, however, the Department encourages applicants to coordinate early in project development with military entities who may be impacted by a proposed facility.

1
2 Measures the applicant would employ to minimize potential glare and lighting from the
3 operation of the solar facility would be to use solar modules coated with antireflective to
4 minimize the potential for glare which is a typical design feature for solar panels and
5 permanent lighting fixtures would be directed down, shielding light to limit off-site lighting.
6

7 Based on compliance with the above recommended condition, the Department recommends
8 Council find that the proposed facility would not be likely to result in significant adverse
9 impacts on the ability of air traffic service providers to provide service.
10

11 *Police and Fire Protection*

12
13 *IV.M.7 Police Protection*
14

15 Facility construction could result in impacts to police protection providers due to the increased
16 possibility of theft at the proposed site, safety issues associated with the increased population
17 from temporary workers, and increased traffic on roads around the proposed facility. The
18 average number of construction workers on site would be 300 people, while the maximum
19 number of workers during peak construction months would not be more than 500 people, with
20 approximately 75-125 workers estimated to temporarily relocate to the area and 180-300
21 workers estimated to commute to the facility site from outside the analysis area.
22

23 The Umatilla County Sheriff is the law enforcement provider that would serve the facility site
24 with an office in Hermiston, Oregon, approximately 2.6 miles from the proposed facility. ASC
25 Exhibit U, Attachment U-4, provides applicant correspondence with the Umatilla County Sheriff
26 which indicates that the facility site is in an area that has low to medium crime. The letter also
27 indicates that, due to the size of Umatilla County, their response times to incidents on the site
28 may be impacted, however, they would respond as necessary if issues arise on site.
29

30 As discussed further under the evaluation for impacts to fire service providers and in Section
31 IV.N., *Wildfire Prevention and Risk Mitigation* and in Section III.A., *Facility Components*, access
32 roads would be sized for emergency vehicle access which would allow emergency vehicles to
33 navigate onsite. Under Recommended Wildfire Prevention and Risk Mitigation Conditions 1-3,
34 the applicant would submit and implement an Emergency Management and Wildfire Mitigation
35 Plan – EMWMP, during construction and operation. The EMWMP includes emergency contact
36 information, pre-emergency planning and training, and emergency response procedures that
37 address fire hazards, equipment safety, and site access.
38

39 The construction staging area, collector substation, switchyard, solar array, and energy storage
40 system would be within a 6 to 10-foot-tall fence line with gated access which would prevent
41 outside persons from accessing the facility site during construction and operation which would
42 minimize theft and potential impacts to law enforcement. Further, as discussed under the
43 traffic safety section under this standard, and as recommended under Public Services Condition
44 2, the applicant proposes, and Department recommends the implementation of a Construction

1 Traffic Management Plan (Attachment U-1 to this order) which would include measures to
2 reduce safety issues associated with construction traffic such as timing deliveries and using
3 flagging and pilot vehicles.

4
5 Proposed facility operations would not be likely to impact police protection providers, because
6 approximately two to five workers would be deployed on an as-needed basis for operations,
7 maintenance (O&M) and repairs. Furthermore, these workers are expected to be hired locally
8 (within 3 hours of the facility), with the exception of positions that may require previous solar
9 generation facility experience. In addition to the O&M workers, specialized third party
10 contractors may be required for equipment repairs, the intermittent frequency of these trips
11 would not be anticipated to impact police protection providers.

12
13 Based on the above reasoning analysis, the Department recommends Council find that the
14 construction and operation of the proposed facility would not be likely to impact law
15 enforcement providers from providing service within the analysis area.

16
17 IV.M.8 Fire Protection
18

19 Construction and operation of the facility could result in impacts to fire protection providers
20 within the analysis area due to increased fire risk from and to the proposed facility.
21 Construction-related activities would increase the risk of fires igniting on site. Proposed facility
22 components including the solar array, substation electrical equipment and transformers, and
23 the battery storage system could result in fire hazards. Findings of compliance of how the
24 applicant characterized wildfire risk within the analysis area and how the proposed facility will
25 be designed, constructed, and operated in compliance with a Wildfire Mitigation Plan (Included
26 in an Emergency Management and Wildfire Mitigation Plan – EMWMP) are discussed further in
27 Section IV.N., *Wildfire Prevention and Risk Mitigation*, of this order. The EMWMP describe the
28 procedures and standards that the applicant will use to inspect facility components and
29 manage vegetation as well as identify preventative actions and programs that the applicant will
30 carry out to minimize the risk of facility components causing wildfire.

31
32 The Umatilla County Fire District #1 (UCFD #1) provides fire protection services for proposed
33 facility site and the nearest fire station is Station 24 located in Stanfield, approximately 2.4
34 miles away.²⁰⁹

35
36 Construction-related fire hazards could result from workers smoking and vehicle and
37 equipment refueling, and operating equipment off roadways in areas of tall dry grass that could
38 ignite upon contact with hot vehicle parts, particularly in dry seasons. ASC Exhibit U as well as
39 ASC Exhibit V (Wildfire Risk), Attachment V-1 (EMWMP) (recommended under Wildfire
40 Prevention and Risk Mitigation Condition 1) provides a summary of the best management
41 practices (BMPs) that would be implemented during construction to reduce the potential for
42 construction-related fires, which include:

²⁰⁹ WESAPPD03-21 ASC Exhibit U Public Services 2022-09-28, Section 3.3.8.2.

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- Keeping water trucks on-site to keep the ground and vegetation moist during extreme fire conditions.
- Plan and manage the work and the movement of vehicles. No off-road driving would be done while working alone.
- Smoking would only be allowed in designated smoking areas in the site boundary.
- Each vehicle used on-site would have a shovel and fire extinguisher of sufficient type and capacity to suppress small fires around vehicles.
- Prior to start of construction work activities, contact local fire department(s) and advise them of work type, location, and probable duration.

The risks of fires igniting during operation of the proposed facility would vary depending on the type of operating facility component and depending on climatic conditions. There could be the potential for electrical fires from electrical equipment associated with solar modules, substation components, and the lithium-ion batteries associated with the Energy Storage System (ESS). Electrical equipment associated with the solar panels and cabling, substations, and the ESS could short-circuit and generate sparking, which could cause fires. Electrical equipment associated with the sub and switchyard stations such as the connection lines and transformers could spark, especially if there is contact with foreign objects such as an animal. The chemicals used in lithium-ion batteries are generally nontoxic but do present a flammability hazard because these batteries are susceptible to overheating and typically require cooling systems dedicated to each ESS enclosure, especially at the utility scale such as the proposed facility.

The applicant provides measures to avoid, minimize and mitigate the potential for fires and other safety risks during proposed facility operation are discussed in ASC Exhibits B, U, and V.

As discussed in Section III.A.2., *Related or Supporting Facilities* and in Section IV.N., *Wildfire Prevention and Risk Mitigation*, approximately 3.4 miles new permanent access roads would be constructed to access the solar array, BESS, substations, and O&M building within the site boundary fence line. Access roads located within the solar array site would be approximately 12 feet to 20 feet wide, depending on location, with an internal turning radius of likely up to 28 feet in accordance with 2019 Oregon Fire Code requirements, including Section 503 and Appendix D - Fire Apparatus Access Roads.²¹⁰ All newly constructed roads would be graded and graveled with cross sections that consist of 6 inches of compacted gravel supported on 6 inches of compacted native dirt. Further, vegetation would be cleared and maintained along perimeter roads to provide a vegetation clearance for fire safety.

The Supervisory Control and Data Acquisition (SCADA) system consists of fiber optic and copper communication lines that would be installed with the collector line system and connects the facility components to allow for remote operations of the proposed facility, including notification of malfunctions and the ability to shut off power.

²¹⁰ WESAPPD03-1 ASC Exhibit B Project Description 2022-10-22, Section 3.0.

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Solar panels and BESS:

- Proper installation and maintenance of electrical equipment would prevent short-circuits and consequent sparking.
- Vegetation management and low growing to reduce the chance of fire.
- The solar array would have shielded electrical cabling, as required by applicable code, to prevent electrical fire.
- Vegetation near and under solar panels may be mowed periodically, and weeds would be managed in accordance with the weed management procedures described in the Weed Management Plan (discussed further in Section IV.H., *Fish and Wildlife Habitat*)
- Electrical equipment would meet NESC standards reducing significant fire risk.
- The areas immediately around the O&M Building, substations, and BESS would be graveled, with no vegetation present.
- The batteries would be contained in completely leak-proof modules and stored upon a concrete pad.
- Transportation of lithium-ion batteries is subject to 49 CFR 173.185 – Department of Transportation Pipeline and Hazardous Material Administration. This regulation contains requirements for prevention of a dangerous evolution of heat; prevention of short circuits; prevention of damage to the terminals; and prevention of batteries coming into contact with other batteries or conductive materials.
- Adherence to the requirements and regulations, personnel training, safe interim storage, and segregation from other potential waste streams will minimize any public hazard related to transport, use, or disposal of batteries.

ASC Exhibit U, Attachment U-6 includes a letter from the UDFD #1 which confirms that the proposed facility site is within the boundaries of the Fire District who provides services for fire, hazardous materials, and emergency medical services. In its letter, the UCFD #1 requests training on the solar arrays and safely operating around them and any proposed battery storage as this is the first significant installation within their fire district.²¹¹ Facility design measures that reduce the risk of fire to and from the facility, such as road width and surfaces materials, are further represented in the applicant’s Emergency Management and Wildfire Mitigation Plan – EMWMP, recommended under Wildfire Risk Mitigation Conditions 1 through 3. Under these conditions, the applicant would provide UDFD #1 copies of the construction EMWMP and operational EMWMP.

To minimize the impacts to fire protection service providers that would serve the proposed facility site and to address the UDFD #1 request, the Department recommends the applicant

²¹¹ Umatilla County Fire District #1 letter also states that Section 1204 of the 2019 Oregon Fire Code (OFC) would provide adequate safety provisions if required maintenance in those sections is carried out. The Department highlights that 2019 OFC provisions from 1204.1 – 1204.4.1 focus on fire and safety measures such as vegetation clearances and ground cover, however based on 1201.1 of the 2019 OFC, fire codes do not apply to utility-scale energy facilities which are under the control of a lawfully designated agency, in this case the Energy Facility Siting Council. Applicant’s may elect to apply these codes and there may be other OFC applicable to the construction and operation of the facility.

1 and fire department training be included be imposed under the following Recommended Public
2 Services Conditions: 4 and 5.

3
4 **Recommended Public Services Condition 4 (PRO):** Prior to operation the certificate
5 holder shall contact the Umatilla County Fire District #1 (UDFD #1) to schedule an on-
6 site orientation to review facility layout and safety procedures. In its annual report
7 required under General Standard of Review Condition 10, the certificate holder shall
8 indicate the date that the training will occur or occurred.

9
10 **Recommended Public Services Condition 5 (OPR):** Once annually during operation the
11 certificate holder shall contact the Umatilla County Fire District #1 (UDFD #1) to offer an
12 on-site training to review facility layout and safety procedures. In its annual report
13 required under General Standard of Review Condition 10, the certificate holder shall
14 indicate the dates that they contacted UDFD #1 and offered training, and any trainings
15 scheduled or already conducted.

16
17 Based on the findings of fact and analysis provided above and compliance with the above-
18 recommended Public Services Conditions, the Department recommends Council find that the
19 construction and operation of the proposed facility is not likely to result in significant adverse
20 impacts to the ability of fire protection service providers to provide fire protection services.

21
22 IV.M.9 Housing

23
24 Potential impacts to public and private housing providers could result if there were an
25 inadequate supply of housing in relation to the demand from the new temporary and
26 permanent residents (workers) associated with the construction and operation of the proposed
27 facility. Examples of public housing providers would be government provided housing, and
28 potentially subsidized housing for low-income people and through a variety of government
29 loans and other incentives. It is not anticipated that temporary or permanent workers
30 associated with proposed facility would use public housing. Examples of private housing options
31 are motels, hotels, trailer or RV parking areas or campgrounds, or house, room or apartment
32 rentals.

33
34 Applicant estimates that during the peak construction period a maximum of 500 works may be
35 needed on-site and that and estimated 60 percent of workers would commute from up to 70
36 miles away from the facility, which leaves and estimated 25 percent of workers requiring
37 temporary housing in the analysis area which means on average there may be 75 construction
38 workers looking for temporary housing and during peak construction 125 workers looking for
39 housing.²¹² The applicant assumes that the commutable distance for temporary works would be
40 70 miles around the project site, so evaluated housing options available in that range, and
41 includes the communities of Hermiston, Stanfield, Boardman, and Pendleton.

42

²¹² WESAPPDoc3-21 ASC Exhibit U Public Services 2022-09-28, Section 3.4.5.1.

1 Temporary construction workers are expected to utilize housing options that include hotels,
2 campgrounds, recreational vehicle (RV) parks, and to a lesser extent, rental houses. ASC Exhibit
3 U details that there are approximately 63 hotels or motels with approximately 3,939
4 hotel/motel rooms, and 19 RV parks with a minimum of 1,000 RV spaces that are available in
5 the analysis area.²¹³ According to 2021 Oregon Tourism Commission data, the lodging vacancy
6 rate for eastern Oregon was approximately 47.1 percent, where hotel and RV site vacancy,
7 occupancy of RV sites is anticipated to be higher during the summer months than during the
8 rest of the year. The Department estimates that even with a 70 percent occupancy rate of hotel
9 rooms and RV sites during the summer months, there would still be approximately 1,492 hotel
10 rooms and RV spaces available. The Department recommends that Council find that this
11 availability of temporary housing would be able to accommodate the estimated maximum of
12 125 temporary works in the analysis area during construction, and that construction of the
13 facility would not adversely impact their ability to provide temporary housing.

14
15 Given that operational personnel that would visit the site as needed would be two to five
16 workers, it is not anticipated that the operational personnel requiring housing, if needed, would
17 impact housing in the analysis area. Therefore, the Department recommends that Council find
18 that the construction and operation of the facility would not be likely to cause significant
19 adverse impact on the ability of housing providers to provide housing.

20 21 IV.M.10 Schools and Healthcare

22
23 Proposed facility construction and operation could result in increased demand of health care
24 providers. Good Shepherd Health Care Services provides hospital and healthcare services to the
25 analysis area, with an office approximately 4.7 miles from the facility site. The Umatilla County
26 Fire District #1 (UCFD#1), located in Hermiston and discussed above, would provide first
27 responder services to the site. The nearest Level III trauma center is the Good Shepard Medical
28 Center and the nearest Level I trauma centers are located in the city of Portland: Oregon Health
29 & Science University Hospital and Legacy Emmanuel Medical Center.

30
31 Impacts to health care providers could occur if facility construction activities result in an
32 unexpected increase in emergency services to such a degree that it overwhelms local providers.
33 Potential impacts could include accidents on-site during construction or traffic-related incidents
34 from the increased traffic. As discussed in Section IV.N., *Wildfire Prevention and Risk Mitigation*,
35 and as recommended Wildfire Prevention and Risk Mitigation Conditions 1-3, the applicant
36 would submit and implement an Emergency Management and Wildfire Mitigation Plan –
37 EMWMP, during construction and operation. The EMWMP includes training, emergency
38 preparation and response procedures which would reduce emergency incidents related to

²¹³ ASC Exhibit U also provides the vacancy/availability of apartments and short-term rental houses, where the estimated number of vacant rental units is calculated as a percentage of total vacant housing units; that percentage is based on the ratio of renter-occupied dwellings to owner-occupied dwellings. Using this method, the applicant estimates that 1,231 housing units would be available for rent in Umatilla County, and 1,499 housing units would be available for rent in Benton County. However, the Department does not anticipate that temporary workers within the area for the approximate 12 months construction period would secure this type of housing.

1 construction and operation of the facility. These measures would help avoid impacts to health
2 care providers and responders. Based on the relatively small number of new temporary
3 residents during construction and new permanent residents during operation, and the
4 implementation of the EMWMP, the Department recommends that the Council find that the
5 proposed facility is not likely to cause significant adverse impact on the ability of communities
6 to provide health care.

7
8 Proposed facility construction would not be expected to increase demand of school providers
9 due to the temporary nature of the activity and low likelihood that families would relocate
10 permanently. The applicant estimates that during operations, up to two new permanent
11 households, with a maximum of four new schoolchildren could move to the analysis area. Due
12 to the relatively small number of new temporary residents and new permanent residents,
13 significant new demands are not expected from schools that serve the area. Therefore, the
14 Department recommends that Council find that the construction and operation of the proposed
15 facility are not likely to result in significant adverse impacts to the ability of school providers to
16 provide schools.

17 **Conclusions of Law**

18
19
20 Based on the foregoing analysis, finding of facts, and recommended site certificate conditions,
21 the Department recommends that the Council find that the construction and operation of the
22 facility, taking into account mitigation, are not likely to result in significant adverse impact to
23 the ability of public and private providers within the analysis area to provide their services.
24

25 **IV.N Wildfire Prevention and Risk Mitigation: OAR 345-022-0115**

26
27 *(1) To issue a site certificate, the Council must find that:*

28
29 *(a) The applicant has adequately characterized wildfire risk within the analysis area*
30 *using current data from reputable sources, by identifying:*

31
32 *(A) Baseline wildfire risk, based on factors that are expected to remain fixed for*
33 *multiple years, including but not limited to topography, vegetation, existing*
34 *infrastructure, and climate;*

35 *(B) Seasonal wildfire risk, based on factors that are expected to remain fixed for*
36 *multiple months but may be dynamic throughout the year, including but not*
37 *limited to, cumulative precipitation and fuel moisture content;*

38 *(C) Areas subject to a heightened risk of wildfire, based on the information*
39 *provided under paragraphs (A) and (B) of this subsection;*

40 *(D) High-fire consequence areas, including but not limited to areas containing*
41 *residences, critical infrastructure, recreation opportunities, timber and*
42 *agricultural resources, and fire-sensitive wildlife habitat; and*

1 (E) All data sources and methods used to model and identify risks and areas
2 under paragraphs (A) through (D) of this subsection.

3
4 (b) That the proposed facility will be designed, constructed, and operated in
5 compliance with a Wildfire Mitigation Plan approved by the Council. The Wildfire
6 Mitigation Plan must, at a minimum:

7
8 (A) Identify areas within the site boundary that are subject to a heightened risk
9 of wildfire, using current data from reputable sources, and discuss data and
10 methods used in the analysis;

11 (B) Describe the procedures, standards, and time frames that the applicant will
12 use to inspect facility components and manage vegetation in the areas
13 identified under subsection (a) of this section;

14 (C) Identify preventative actions and programs that the applicant will carry out
15 to minimize the risk of facility components causing wildfire, including
16 procedures that will be used to adjust operations during periods of
17 heightened wildfire risk;

18 (D) Identify procedures to minimize risks to public health and safety, the health
19 and safety of responders, and damages to resources protected by Council
20 standards in the event that a wildfire occurs at the facility site, regardless of
21 ignition source; and

22 (E) Describe methods the applicant will use to ensure that updates of the plan
23 incorporate best practices and emerging technologies to minimize and
24 mitigate wildfire risk.

25 ***

26 **Findings of Fact**

27
28 The Wildfire Prevention and Risk Mitigation standard requires the Council to find the applicant
29 has adequately characterized wildfire risk associated with a proposed facility; and that the
30 proposed facility would be operated in compliance with a Council-approved wildfire mitigation
31 plan. Because the effective date of OAR 345-022-0115 was July 29, 2022, and the application
32 for site certificate was deemed complete on September 9, 2022, this standard applies to the
33 proposed facility. The analysis area to evaluate potential wildfire risks is the site boundary and
34 one-half mile from the site boundary.²¹⁴

35
36 *Characterization of Wildfire Risk within Analysis Area*

37
38 To adequately characterize the wildfire risk within the analysis area as required under OAR 345-
39 022-0115(1)(a), the applicant used data from the Northwest Interagency Coordination Center
40 (NWCC) Predictive Services group which provides fire weather advisories, and the Oregon
41 Wildfire Risk Explorer which is an online planning tool maintained in partnership with the
42 Oregon Department of Forestry, Oregon State University Institute for Natural Resources, and

²¹⁴ OAR 345-001-0010(34)(c).

1 the U.S. Forest Service.²¹⁵ The applicant also evaluated climate and weather data from the
2 National Oceanic and Atmospheric Administration (NOAA).

3
4 Based upon the applicant and Department evaluation of baseline and seasonal fire risk, areas
5 subject to heightened fire risk, and high-fire consequence areas using current and reputable
6 data sources and methods, the Department recommends Council find that the area within the
7 site boundary is characterized as having moderate wildfire risk and the area within the analysis
8 area as having moderate or low wildfire risk.

9
10 *Baseline Fire Risk [OAR 345-022-0115(1)(a)(A)]*

11
12 The applicant evaluated baseline wildfire risk within the analysis area, based on factors that are
13 expected to remain fixed for multiple years, including topography of the site, vegetation,
14 existing infrastructure and fire hazards to potential infrastructure, the history of fires, status of
15 active fires, burn probability, and the regional climate.

16
17 *Topography*

18
19 The site boundary and surrounding analysis area are located in north-central Oregon, an area of
20 rolling hills covered in grasslands and desert vegetation. The topography of the facility site
21 includes slopes ranging from approximately zero to 15 percent, with an average slope of less
22 than 2 percent, and elevation ranges from approximately 665 feet to 732 feet above mean sea
23 level.²¹⁶ Because the average slope is 2 percent within the facility site, the topography is
24 considered to be relatively flat, and thus less of a risk for wildfire to spread quicker on steeper
25 slopes.

26
27 *Vegetation*

28 According to the Oregon Wildfire Risk Explorer, the Vegetation Type within the site boundary is
29 mapped as shrubland with patches of non-native grass and grassland, while the vegetative
30 cover to the north, south, and west of the site boundary are mapped as agricultural and areas
31 east of the site boundary are mapped similar to the site (shrubland with patches of non-native
32 grass, grassland, and conifer).²¹⁷ ASC Exhibit V, Figure V-3 illustrates the distribution and

²¹⁵ As of October 6, 2022, the Oregon Wildfire Risk Explore website states, “The Senate Bill 762 statewide wildfire risk map and homeowner risk reports are unavailable while the map is being updated. The maps presented here are from the 2018 Quantitative Wildfire Risk Assessment and the rest of this site is still ready for you to explore.” https://tools.oregonexplorer.info/OE_HtmlViewer/index.html?viewer=wildfire Accessed 10-04-2022. Applicant indicates that, prior to the removal of the statewide wildfire risk map, it was able to evaluate the site boundary and analysis area and the area within the site boundary was mapped as having moderate wildfire risk and the area within the analysis area as having moderate or low wildfire risk.

²¹⁶ WESAPDoc3-8 ASC Exhibit H Geological Soil Stability 2022-09-28, Section 2.1.

²¹⁷ Vegetation Type is a data layer derived from the LANDFIRE (2010) dataset, where existing vegetation is mapped using predictive landscape models based on extensive field reference data, satellite imagery, biophysical gradient layers, and classification and regression methods. The data represents the current distribution of terrestrial ecological systems, a group of plant community types that tend to co-occur within landscapes with similar

1 coverage of vegetation within the analysis area, where most vegetation is shrubland and
2 grasslands. This is reiterated in ASC Exhibit P and in Section IV.H., *Fish and Wildlife Habitat*,
3 where the majority of the site boundary is Category 4 and 5 habitat, mapped as Upland
4 Grassland, Shrub-steppe and Shrubland and Category. Generally speaking, lower vegetation
5 such as grass and shrublands have less of a fire risk because fires tend to burn quickly and
6 diffuse decreasing fire intensity and damage.

7
8 *Fire Hazards to Infrastructure*
9

10 Most of the area within the site boundary and analysis area are mapped as having very low to
11 low hazard to potential structures with some discrete areas showing moderate to high hazard
12 to potential structures (see Figure V-1).²¹⁸ The only infrastructure within the site boundary are
13 the existing BPA and PacifiCorp transmission lines and towers.²¹⁹ The existing transmission
14 towers are considered low-density infrastructure because of their spacing and lack of direct
15 contact with other infrastructure and vegetation. However, if a wildfire were ignited onsite, the
16 areas around the poles and the poles themselves would be subject to heightened risk and may be
17 considered areas of high fire consequence as there is the potential for high fire hazard for these
18 structures. The analysis area contains one house off Canal Road and several agricultural
19 structures north, west, and south of the site boundary as well as irrigation infrastructure. These
20 agricultural structures and irrigation infrastructure areas may be considered areas of high-fire
21 consequence; however, the Hazard to Potential Structures layer identifies these areas as having
22 low to moderate hazard to potential structures as they are located within or adjacent to
23 irrigated agricultural fields which have a reduced fire hazard compared to the shrub/grassland
24 vegetation within and east of the site boundary.²²⁰

25
26 The surrounding agricultural areas have agricultural infrastructure such as watering systems
27 and S. Edwards Road is directly to the east of the facility. Neither of these types of
28 infrastructure are anticipated to increase or be significantly damaged from a wildfire; S.
29 Edwards Road would act as a fire break from fire spreading east to and from the facility site.

30
31 Under OAR 345-022-0115(1)(a)(C), the Council must find that the applicant has adequately
32 characterized wildfire risk within the analysis area using current data from reputable sources by
33 identifying areas subject to a heightened risk of wildfire, based on the information provided in
34 support of the baseline and seasonal wildfire risk evaluation under OAR 345-022-0115(1)(a)(A)
35 and (B). Because, under this factor (Fire Hazards to Infrastructure), the applicant describes the
36 areas of heightened fire risk within the analysis area, the Department recommends this
37 description meets OAR 345-022-0115(1)(a)(C).

ecological processes, substrates, and/or environmental gradients. This type of data provides the basis for fuel models used in wildfire risk assessment and other wildfire modeling.

²¹⁸ The Oregon Wildfire Risk Explorer, Hazard to Potential Structures data layer shows impact levels to structures within 150 meters of a burnable fuel type, as if structures were present, and if a wildfire occurs. This data is based on modeled vegetation and not on building construction materials

²¹⁹ WESAPDoc3-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Section 2.0.

²²⁰ WESAPDoc3-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Section 2.0.

1
2 Additionally, under OAR 345-022-0115(1)(a)(D), the Council must find that the applicant has
3 adequately characterized wildfire risk within the analysis area using current data from
4 reputable sources by identifying high-fire consequence areas, which include but are not limited
5 to areas containing residences, critical infrastructure, recreation opportunities, timber and
6 agricultural resources, and fire-sensitive wildlife habitat. Under this factor (Fire Hazards to
7 Infrastructure), the applicant describes the existing transmission lines as potential areas of
8 heightened fire risk within the analysis area, therefore, the Department recommends this
9 evaluation also meets OAR 345-022-0115(1)(a)(D) as well.

10
11 *Fire History, Active Fires, and Burn Probability*

12
13 The Oregon Wildfire Risk Explorer provides several layers based on a dataset including fire
14 locations from 1992 to 2019, fire perimeters from 2000 to 2020 and current fire points and
15 perimeters. According to this source, and as of October 2022, no historic or active fire locations
16 or perimeters occurred within the site boundary or analysis area.²²¹

17
18 Burn Probability shows the likelihood of a wildfire greater than 250 acres burning a given
19 location, based on wildfire simulation modeling. This is an annual burn probability, adjusted to
20 be consistent with the historical annual area burned. Viewing local small fires in conjunction
21 with this layer can give a more comprehensive view of local fire history and potential. The
22 majority of the site boundary is mapped as having a moderate or low burn probability with
23 discreet areas of very low burn probability along S. Edwards Road (see Figure V-2). Most of the
24 areas in the greater analysis area north, south, and west (agricultural areas) of the site
25 boundary are unmapped in this layer. However, areas east of the site boundary are mapped as
26 either very low burn probability (along S. Edwards Road), low burn probability, and moderate
27 burn probability.

28
29 *Regional Climate*

30
31 The applicant explains that the site boundary has a moderate wildfire risk mainly due to the
32 existing vegetation and the relatively dry climate in this region. The facility site boundary and
33 analysis area are within the southern portion of the Columbia Plateau, which consists of a large
34 plateau formed by a series of historical basalt flows.²²² The Columbia Plateau ecoregion made
35 up of lowlands, with an arid climate, cool winters, and hot summers.²²³ Where arid regions
36 receive little precipitation, less than 10 inches of rain per year, and semi-arid regions receive 10
37 to 20 inches of rain per year.²²⁴ The area around Hermiston, Oregon receives between

²²¹ WESAPPD03-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Section 2.0.

²²² WESAPPD03-8 ASC Exhibit H Geological Soil Stability 2022-09-28, Section 2.2.

²²³ <https://oregonconservationstrategy.org/ecoregion/columbia-plateau/>. Accessed 10-20-2022.

²²⁴ <https://www.nps.gov/subjects/geology/arid-landforms.htm>. Accessed 10-20-2022.

1 approximately 8.00 to 10.5 inches pf rain annually, with a mean annual precipitation rate of
 2 8.61 inches, which would be considered an arid climate.²²⁵

3
 4 *Seasonal Wildfire Risk [OAR 345-022-0115(1)(a)(B)]*

5
 6 The applicant evaluated seasonal wildfire risk within the analysis area and site boundary using
 7 factors that are expected to remain fixed for multiple months but may be dynamic throughout
 8 the year, including cumulative annual and monthly precipitation, weather advisories which
 9 include fuel moisture content data, and an evaluation of Average Flame Length which is the
 10 average length of flames expected during a fire, given local fuel and weather conditions.

11
 12 *Precipitation*

13
 14 ASC Exhibit V provides monthly climate data from 1991 to 2020 measured at the weather
 15 station at Hermiston Municipal Airport (Station USW00004113, located 1.7 miles northwest of
 16 the facility site boundary). Table 15: Summary of Monthly Normal Temperature and
 17 Precipitation at Hermiston Municipal Airport (1991-2020), provides a summary of the weather
 18 data. The analysis area receives most of its precipitation from November to February with a
 19 mean annual precipitation of 8.61 inches, and the summer months of July through September
 20 are typically the driest with the highest temperatures.

21
Table 15: Summary of Monthly Normal Temperature and Precipitation at Hermiston Municipal Airport (1991-2020)

Month	Max Temp (°F)	Ave Temp (°F)	Precip (Inch)
January	43.3	36	1.14
February	49.4	39.3	0.86
March	59.1	46.4	0.77
April	66.6	52.8	0.78
May	76.2	61.2	0.83
June	82.2	67.6	0.64
July	92.7	75.6	0.12
August	91	73.9	0.17
September	81.2	64.6	0.33
October	66.5	52.7	0.8
November	50.7	41.5	1.05
December	42.1	35.2	1.12

Source: WESAPDoc3-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Table V-1. NOAA, National Centers for Environmental Information. Station: Hermiston Muni Ap, OR

22
 23 *Fuel Moisture Content and Flame Length*

²²⁵ WESAPDoc3-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Section 2.0, WESAPDoc3-9 ASC Exhibit I Soil Conditions 2022-09-28, Section 3.0, and <https://www.usclimatedata.com/climate/hermiston/oregon/united-states/usor0159>. Accessed on 10-20-2022.

1
2 Fuel moisture content varies depending on changes in weather (both seasonally and during
3 short periods) and determination of exact fuel-moisture values at any time is complicated by
4 both the nature of the fuels and their responses to the environment. Therefore, fuel moisture
5 content is dynamic throughout the year.²²⁶ Living plants and dead fuels respond differently to
6 weather changes and the nature of the drying and wetting processes of dead fuels is such that
7 the moisture content of these fuels is strongly affected by weather changes. These moisture
8 contents are influenced by precipitation, air moisture, air and surface temperatures, wind, and
9 cloudiness, as well as by fuel factors such as surface to volume ratio, compactness, and
10 arrangement.²²⁷ Therefore, current conditions such as precipitation to-date, current fuel
11 moisture data, and local weather may increase or decrease seasonal fire risk.

12
13 The Northwest Interagency Coordination Center (NWCC) Predictive Services group provides fire
14 weather advisories (such as Red Flag Warnings) and fuel and fire behavior advisories (including
15 fuel status reports and fuel moisture content predictions) for each predictive service area (PSA)
16 in the northwest. The site boundary is located within PSA NW10.²²⁸ During construction and
17 operation fire danger forecasts for the analysis area would be monitored, and facility activities
18 and mitigation measures would be adjusted based on their annual variations under the
19 methods and measures identified in the Emergency Management and Fire Mitigation Plan,
20 discussed further below.

21
22 According to the 2018 Oregon Wildfire Risk Explorer, Average Flame Length shows the average
23 length of flames expected, given local fuel and weather conditions. Flame lengths have
24 potential to exceed the mapped values shown, even under normal weather conditions. Flame
25 length is commonly used as a direct visual indication of fire intensity and is a primary factor to
26 consider for firefighter safety and for gauging potential impacts to resources and assets. It can
27 also guide mitigation work to reduce the potential for catastrophic fires by showing where work
28 can be done to reduce higher potential flame lengths/fire intensities to lower flame lengths/fire
29 intensities. As illustrated in ASC Exhibit V, Figure V-4, most of the site boundary area is mapped
30 as having an average flame length of 4 to 8 feet or less than 4 feet.²²⁹ Fires with a flame length
31 of 4 to 8 feet can be expected to have moderate intensity under normal weather conditions and
32 fires with a flame length of below four feet are expected to be low intensity under normal
33 weather conditions.

34
35 *Wildfire Mitigation Plan*

36
37 Under OAR 345-022-0115(1)(b), the Council must find that the proposed facility will be
38 designed, constructed, and operated in compliance with a Wildfire Mitigation Plan approved by

²²⁶ WESAPPD03-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Section 2.0.

²²⁷ <https://www.nwccg.gov/publications/pms425-1/weather-and-fuel-moisture> Chapter 11. Accessed on 10-20-2022.

²²⁸ WESAPPD03-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Section 2.0.

²²⁹ WESAPPD03-22 ASC Exhibit V Wildfire Risk Management 2022-09-28, Section 2.0.

1 the Council. The applicant includes its Emergency Management and Wildfire Mitigation Plan
2 (EMWMP) as Attachment V-1 of ASC Exhibit V. In addition to general emergency response
3 protocols and information, the Emergency Management and Wildfire Mitigation Plan also
4 addresses the criteria under OAR 345-022-0115(1)(b)(A) through (E), as summarized below.
5

6 EMWMP Section 4.2.1.2 provides preventative actions and programs that the applicant would
7 carry out to minimize the risk of facility components and personnel causing wildfire during
8 construction. Some of these construction-related avoidance, reduction, and mitigation
9 measures include:

- 10 • No smoking policy, fire permit requirement, hazardous material and combustible
11 storage areas, pre task planning to assess fire risks, relevant fire awareness, lockout-
12 tagout requirement, hazardous materials documentation and management.
- 13 • Water truck would be on-site to keep the ground and vegetation moist during extreme
14 fire conditions.
- 15 • Each vehicle used on-site will have a shovel and a fire extinguisher of sufficient type and
16 capacity to suppress small fires around vehicles. Vehicle occupants shall be familiar with
17 the location of these fire extinguishers.
- 18 • Facility will be deenergized for most of the construction period, only during the final
19 commissioning stage it's expected to be connected to grid.

20
21 Section 1.2.1, discusses multiple design features of the facility that would facilitate safe
22 operations of the facility as well as help reduce the risk of wildfire from and to the facility.
23 These measures are also discussed under Section III.A., *Facility Components*. The project design
24 features that are preventative actions and programs that the applicant will carry out to
25 minimize the risk of facility components causing wildfire are:

- 26 • Project roads would be 12 to 20 feet wide with an internal turning radius of 28 feet and
27 less than 10 percent grade to provide access to emergency vehicles.
- 28 • Maintain a five-foot noncombustible, defensible space clearance along the fenced
29 perimeter of the site boundary.
- 30 • The collector system and substation/switchyard will have redundant surge arrestors to
31 deactivate the Project during unusual operational events that could start fires.
- 32 • The areas immediately around the substation, BESS, and switchyard would be graveled,
33 with no vegetation present. The collector substation, switchyard, and battery storage
34 will have also sufficient spacing between equipment to prevent the spread of fire.

35 Section 1.3.3 of the EMWMP discusses the areas within the site boundary and analysis area that
36 are subject to a heightened risk of wildfire which includes the existing transmission
37 infrastructure, such as the power poles.
38

39 Section 1.2.3.1 of the EMWMP outlines and describes the procedures, standards, and time
40 frames that the applicant will use to inspect facility components such as the battery storage
41 units, substation, and solar panels.

- 1 • The facility will be monitored and operated remotely using the Supervisory Control and
2 Data Acquisition (SCADA) System which will be installed to collect operating and
3 performance data from the solar arrays.
- 4 • The BESS will have an integrated fire safety system that monitors heat, and smoke, and
5 provides dedicated annunciation/alarming in the event a fire condition is detected,
6 automatically returns the system to a standby mode and if necessary, automatically
7 deploys an appropriate suppression agent. The fire alarm functions are handled by a
8 common fire alarm control panel (FACP) in the auxiliary control cabinet, which monitors
9 the status of the detectors and initiates an alarm if a fire is detected.
- 10 • Onsite inspections of facility equipment will occur quarterly. Onsite inspections will
11 include check lists provided by the Original Equipment Manufacturer and the use of
12 utility industry best practices.

13

14 EMWMP Section 4.2.2 describes the procedures, standards, and time frames that the applicant
15 will use to manage vegetation in the areas of heightened fire risk as well as a vegetation
16 management program for all vegetation within the site boundary. Some provisions of the
17 vegetation management procedures include:

- 18 • Vegetation within the fence line and below the solar arrays will be maintained to a
19 height of 18- inches and provide a minimum of 24-inch clear distance to any exposed
20 electrical cables.
- 21 • Vegetation will be removed within 10-foot perimeter of the inverter, transformer, and
22 battery unit pads. Gravel or similar noncombustible base will be located within the 10-
23 foot perimeter of these pads.
- 24 • BMPs for vegetation removal may include physical vegetation control such as mowing or
25 introduction of a non-invasive species that is low growing.
- 26 • A physical vegetation survey assessment of the fenced area will be completed at least
27 once annually to monitor for vegetation clearances, maintenance of fire breaks, and
28 monitor for wildfire hazards. The vegetation survey assessment will occur in May or
29 June, prior to the start of the dry season. Results of the survey will be used to assess the
30 frequency of the periodic vegetation maintenance.

31

32 During operations and during periods of heightened wildfire risk, the design features that allow
33 for remote monitoring and control of the facility during operations well as the vegetative
34 maintenance procedures to manage vegetation would act as preventative actions and
35 programs that the applicant will carry out to minimize the risk of facility components causing
36 wildfire. Additionally, Section 4.4.3 of the EMWMP states that fire danger forecasts for the
37 analysis area for PSA NW10 will be monitored by the Site Operations Manager or designee, and
38 operational activities and mitigation measures will be adjusted as needed to address fire risks.

39

40 Section 1.1.1 identifies the overall purpose of the of the Emergency Management and Wildfire
41 Mitigation Plan, which outlines and describes procedures to minimize risks to public health and
42 safety and the health and safety of responders. The EMWMP will be shared with the Umatilla
43 County Fire District #1 (UCFD #1) which would serve the facility in the event of an emergency,

1 including fires. This is a provision recommended below in the Wildfire Prevention and Risk
2 Mitigation Conditions. Further, under recommended Public Services Conditions 4 and 5, the
3 applicant would provide the fire department with on-site trainings. The measures outlined in
4 the EMWMP would also protect against damages to resources protected by Council standards
5 in the event that a wildfire occurs at the facility site, regardless of ignition source. However, the
6 Department notes that there are not significant resources protected under other Council
7 standards such as Fish and Wildlife Habitat, wetlands and cultural and archaeological resources.
8 The applicant notes, however, that the existing transmission lines could be considered an
9 above-ground historic resource because of the age of the operating infrastructure. The
10 Department recommends Council find that the provisions identified in the EMWMP would
11 identify fire risk to this infrastructure and would adequately provide protections and mitigation
12 measures to protect them, to the extent practicable, from wildfire.

13
14 Finally, Section 1.1.1 and Section 1.3.4 of the EMWMP describes the process and timeframes
15 the applicant describes to ensure that updates of the plan incorporate best practices and
16 emerging technologies to minimize and mitigate wildfire risk. The applicant explains that it will
17 conduct a review and update of the EMWMP every five years during operation, which will
18 include an evaluation of wildfire risks consistent with the requirements of OAR 345-022-
19 0115(1). Based upon this review of wildfire risk, the applicant would update the applicable
20 section of the EMWMP. Best practices and emerging technologies that could be updated could
21 relate to vegetation management, equipment updates, or updates in remote monitoring
22 devices. If the EMWMP is updated after each five-year review, a copy of the updated plan will
23 be provided to the Department with the annual compliance report required under OAR 345-
24 026-008(2) and imposed under General Standard of Review Condition 10. If after the 5-year
25 review of the EMWMP, a determination is made that no updates are required, an explanation
26 of this determination will be provided in the annual compliance report. Further, the applicant
27 will incorporate a summary of the results of the quarterly facility inspections and the annual
28 vegetation survey assessment into each of the annual compliance reports required under OAR
29 345-026-008(2). A summary of the vegetation management conducted within the fence line will
30 also be included in the annual report. As required under OAR 345-022-0115(1)(b), and to reflect
31 the applicant representations to evaluate and reduce the risk of wildfire during construction
32 and operation of the facility in the EMWMP, the Department recommends the following
33 conditions:

34
35 **Recommended Wildfire Prevention and Risk Mitigation Condition 1 (PRE):** Prior to
36 construction of the facility, facility components or phase, as applicable, the certificate
37 holder shall submit to the Department and the Umatilla County Fire District #1 (UCFD #1), a
38 Final Construction Emergency Management and Wildfire Mitigation Plan (EMWMP) which
39 includes the applicable measures provided in the Draft Emergency Management and
40 Wildfire Mitigation Plan (EMWMP) (Attachment V-1 of the Final Order on ASC).

41
42 **Recommended Wildfire Prevention and Risk Mitigation Condition 2 (PRO):** Prior to
43 operation of the facility and based upon final design, the certificate holder shall submit to
44 the Department and the Umatilla County Fire District #1 (UCFD #1), an Operational

1 Emergency Management and Wildfire Mitigation Plan (EMWMP) which includes the
2 applicable measures provided in the Draft Emergency Management and Wildfire Mitigation
3 Plan (EMWMP) (Attachment V-1 of the Final Order on ASC).

4
5 **Recommended Wildfire Prevention and Risk Mitigation Condition 3 (OPR):** During
6 operation of the facility the certificate holder shall:

- 7 a. Implement the Operational Emergency Management and Wildfire Mitigation Plan
8 (EMWMP) submitted under Wildfire Prevention and Risk Mitigation Condition 2.
9 b. Every 5 years after the first operational year, review and update the evaluation of
10 wildfire risk under [OAR 345-022-0115\(1\)\(b\)](#) and submit the results in the annual report
11 required under General Standard of Review Condition 10 for that year.
12 c. Submit an updated EMWMP to the Department and the Umatilla County Fire District
13 #1 (UCFD #1) if substantive changes are made to the EMWMP as a result of the review
14 under sub (b) of this condition, or at any other time substantive revisions are made
15 to the EMWMP.
16

17 Based upon the applicant and Department evaluation of baseline and seasonal fire risk, areas
18 subject to heightened fire risk, and high-fire consequence areas using current and reputable
19 data sources and methods, the Department recommends Council find that the area within the
20 site boundary is characterized as having moderate wildfire risk and the area within the analysis
21 area as having moderate or low wildfire risk. Further, the Department recommends that
22 Council find that proposed facility will be designed, constructed, and operated in compliance
23 with the Emergency Management and Wildfire Mitigation Plan and approved the Plan.
24

25 **Conclusions of Law**

26
27 Based on the foregoing findings of fact and recommended site certificate conditions, the
28 Department recommends that the Council find that the applicant has adequately characterized
29 wildfire risk within the analysis area using current data from reputable sources and that
30 the proposed facility will be designed, constructed, and operated in compliance with a Wildfire
31 Mitigation Plan under OAR 345-022-0115(1).
32

33 **IV.O Waste Minimization: OAR 345-022-0120**

34
35 *(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the*
36 *Council must find that, to the extent reasonably practicable:*

37
38 *(a) The applicant's solid waste and wastewater plans are likely to minimize*
39 *generation of solid waste and wastewater in the construction and operation of the*
40 *facility, and when solid waste or wastewater is generated, to result in recycling and*
41 *reuse of such wastes;*
42

1 ***(b) The applicant’s plans to manage the accumulation, storage, disposal and***
2 ***transportation of waste generated by the construction and operation of the facility***
3 ***are likely to result in minimal adverse impact on surrounding and adjacent areas.***
4

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

9 ***

10
11 **Findings of Fact**

12
13 *Solid Waste*

14
15 Proposed facility construction, operation and decommissioning would result in solid waste
16 generation. The applicant estimates the volume of construction waste would be one 40-cubic-
17 yard roll-off per week during active construction.²³⁰ The solid waste generated includes general
18 construction debris, such as scrap metal, wood, glass, plastics, cardboard, waste concrete, and
19 excavated soils. Solid waste would be generated from the packaging materials from the solar
20 photovoltaic modules and associated equipment, which would consist of cardboard, wood
21 pallets, and plastic materials. Erosion control materials, such as straw and silt fencing, would
22 also be generated during construction. The waste generated from construction may also
23 include small amounts of hazardous waste, such as paint, spent lubrication oils, pesticides, and
24 solvents. The hazardous materials required for construction would be stored in accordance with
25 U.S. Environmental Protection Agency and U.S. Occupational Safety and Health Administration
26 regulations as they apply, and any spills of these materials would be cleaned up according to
27 the construction Spill Prevention, Control and Countermeasure (SPCC).

28
29 The applicant describes that waste generated during construction would be minimized by
30 implementing efficient construction practices and ensuring that detailed amounts of materials
31 are delivered on site. Waste that can be recycled includes metals, glass, paper, and yard debris.
32 Recyclable waste will be sorted, stored in dumpsters or other suitable containers, and then
33 transported to Columbia Ridge Landfill near Arlington or Finley Buttes Landfill near Boardman,
34 Oregon. Additional discussion of waste disposal and recycling facility capacity within the
35 analysis area, see Section IV.M., *Public Services*.

36
37 During operations, the primary waste generated would be solid waste from maintenance and
38 ongoing operational activities. The applicant estimates approximately two yards of solid waste
39 would be generated per month.²³¹ During operations, the primary waste generated would be
40 solid waste from maintenance and ongoing operational activities. Waste such as universal
41 waste (lightbulbs and batteries) would be minimized and recycled according to applicable

²³⁰ WESAPPD03-23 ASC West End Solar Exhibit W Waste 2022-09-28, Section 2.1.1.

²³¹ WESAPPD03-23 ASC West End Solar Exhibit W Waste 2022-09-28, Section 2.1.2.

1 regulations. Solar panels that are nonfunctional, exchanged during operations or are retired
2 would be recycled to the maximum extent feasible through the Solar Energy Industries
3 Association (SEIA) National PV Recycling Program.²³² Solid waste would also be generated
4 during operations when the lithium-ion batteries are replaced because batteries lose their
5 effectiveness through repeated charge/discharge cycles. The frequency of battery replacement
6 would depend on final technologies selected, however may occur every 10 years. The following
7 procedures would be implemented for lithium-ion battery replacement during operations and
8 retirement.²³³

- 9
- 10 • The facility operator would disconnect and de-energize battery system prior to removal
- 11 from the installed racks and package the batteries for transport to a licensed facility.
- 12 • At the recycling facility, the qualified contractor would dismantle battery modules and
- 13 prepare individual cells for metals recovery.
- 14 • Individual cells would be processed in a furnace to recover metals. Recovered metals
- 15 may include aluminum, calcium, lithium, and a metal alloy comprising cobalt, copper,
- 16 nickel, and iron.
- 17 • Recovered metals would be recycled or separated to recover individual metals where
- 18 economically viable.
- 19

20 The applicant explains in ASC Exhibit G that during operation small amounts of hazardous
21 materials may be generated including oils, lubricants, and solvents on site, which would be
22 stored similar to the materials on-site during construction. Soil Protection Conditions 5 and 6
23 require an operational Spill Prevention Control and Countermeasure Plan (SPCC), which would
24 provide procedures for any spills during operations including from non-hazardous and small
25 amounts of hazardous. Further discussed in Section IV.D., *Soil Protection*, are the secondary
26 containment design features, such as siting the batteries and transformers on concrete or
27 gravel pads, to avoid impacts associated with spills.

28

29 At the time of facility retirement and decommissioning, as discussed further in Section IV.G.,
30 *Retirement and Financial Assurance*, aboveground equipment would be removed, sold for
31 scrap, reused or recycled, or disposed of at a local landfill. Electrical cables would be rendered
32 inert; aboveground cables would be removed, and underground cables would be left in place if
33 below three feet below ground. The applicant maintains that similar procedures for minimizing,
34 recycling, and disposing of solid waste during construction will be employed during retirement
35 of the proposed facility. The retirement of the battery storage system, if constructed and

²³² WESAPPD0c3-23 ASC West End Solar Exhibit W Waste 2022-09-28, Section 3.1. The purpose of the SEIA is to combine services offered by recycling partners in order to provide cost-effective and environmentally responsible end-of-life management solutions for solar facility components.

²³³ Id.

1 operated, would involve disposing of battery components at an offsite facility approved for
2 disposal or recycling of batteries, similar as the procedures during operations.

3
4 To require that the applicant develop and implement plans that, to the greatest extent
5 practicable, reduces, minimizes and recycles solid waste and wastewater during the
6 construction and operation of the facility, the Department recommends the following
7 condition:

8
9 **Recommended Waste Minimization Condition 1 (GEN):** The certificate holder shall
10 develop and implement plans that are likely to minimize the generation of solid waste
11 and wastewater during construction and operation of the facility, and which would
12 result in reuse and recycling solid waste and wastewater.

13
14 Further, to ensure that adverse impacts to surrounding and adjacent areas are minimized and
15 that the applicant maintains plans to manage the accumulation, storage, disposal and
16 transportation of waste generated by operation of the facility, the Department recommends
17 the following condition:

18
19 **Recommended Waste Minimization Condition 2 (OPR):** In the annual report required
20 under General Standard of Review Condition 10, the certificate holder shall include
21 results of its waste management and recycling plans, including but not limited to:
22 a. Quantities of solar panels and lithium-ion batteries recycled or disposed of.
23 b. Identification of the availability of programs or licensed facilities that recycle
24 solar panels and lithium-ion batteries and their capacity to accept materials.
25 Identification of final recycling destination facility or program for recycled solar
26 panels and lithium-ion batteries.
27 c. If recycling programs or facilities are not available, the identification of final
28 disposal destination facility or program for disposed solar panels and lithium-ion
29 batteries and their capacity to accept waste.

30 31 *Wastewater*

32
33 Wastewater generated during construction would result from construction personnel using
34 portable toilets, which would be serviced by a local contractor for offsite disposal in accordance
35 with state law. The construction contractor will provide an adequate number of portable toilets
36 to accommodate construction staff on site. These would be serviced a minimum of once per
37 week, and wastewater generated during construction would be transported via trucks by a local
38 licensed subcontractor to a treatment facility. Portable handwashing stations would also be
39 used during construction would be hauled off site as well.

40
41 Other than washwater periodically generated from washing panels, industrial wastewater
42 would not be generated during facility operation. Solar panel washing and wastewater disposal
43 is discussed further in Section IV.D., *Soil Protection*, and the wastewater would not include
44 cleaning solvents, and would be discharged by evaporation and seepage into the ground. Based

1 on the limited sources of wastewater, the Department recommends Council find that it would
2 be unlikely for the surrounding area to be impacted by proposed facility wastewater
3 generation.

4
5 **Conclusions of Law**

6
7 Based on the foregoing findings of fact and recommended site certificate conditions, the
8 Department recommends that the Council find that the applicant’s plans will likely minimize
9 solid waste and waste water generated, that solid waste and wastewater would be recycled
10 and reused, and that the accumulation, storage, disposal and transportation of waste
11 generated by the construction and operation of the facility are likely to result in minimal
12 adverse impact on surrounding and adjacent areas, under the Council’s Waste Minimization
13 Standard.

14
15 **IV.P Division 23 Standards**

16
17 The Division 23 standards apply only to “nongenerating facilities” as defined in ORS
18 469.503(2)(e)(K), except nongenerating facilities that are related or supporting facilities. The
19 proposed facility would not be a nongenerating facility as defined in statute and therefore
20 Division 23 is not applicable.

21
22 **IV.Q Division 24 Standards**

23
24 The Council’s Division 24 standards include specific standards for the siting of energy facilities,
25 including wind projects, underground gas storage reservoirs, transmission lines, and facilities
26 that emit carbon dioxide.

27
28 **IV.Q.1 Siting Standards for Transmission Lines: OAR 345-024-0090**

29
30 *To issue a site certificate for a facility that includes any transmission line under Council*
31 *jurisdiction, the Council must find that the applicant:*

- 32
33 *(1) Can design, construct and operate the proposed transmission line so that alternating*
34 *current electric fields do not exceed 9 kV per meter at one meter above the ground*
35 *surface in areas accessible to the public;*
36 *(2) Can design, construct and operate the proposed transmission line so that induced*
37 *currents resulting from the transmission line and related or supporting facilities will be*
38 *as low as reasonably achievable.*

39
40 **Findings of Fact**

41 The Siting Standards for Transmission Lines address issues associated with alternating current
42 electric fields and induced currents generated by high-voltage transmission lines. ASC Exhibit

1 AA provides the applicant’s analysis to support Council’s review of the proposed facility’s
2 compliance with the standard.

3
4 The applicant is not proposing a transmission line in the ASC as a related or supporting facility
5 and states that it would connect to one of three existing transmission lines within or adjacent
6 to the site boundary, therefore, OAR 345-024-0090 does not apply to this proposed facility.
7

8 **IV.R Other Applicable Regulatory Requirements Under Council Jurisdiction**

9
10 Under ORS 469.503(3) and under the Council’s General Standard of Review (OAR 345-022-
11 0000), the Council must determine whether the proposed facility complies with “all other
12 Oregon statutes and administrative rules...as applicable to the issuance of a site certificate for
13 the proposed facility.” This section addresses the applicable Oregon statutes and administrative
14 rules that are not otherwise addressed in Council standards, including noise control regulations,
15 regulations for removal or fill of material affecting waters of the state, and regulations for
16 water rights.
17

18 **IV.R.1 Oregon Department of Environmental Quality (DEQ) Noise Control**
19 **Regulations for Industry and Commerce: OAR 340-035-0035**

20
21 *(1) Standards and Regulations:*

22 ***

23 *(b) New Noise Sources:*

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

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

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

42 *(ii) The ambient statistical noise level of a new industrial or commercial noise*
43 *source on a previously unused industrial or commercial site shall include*
44 *all noises generated or indirectly caused by or attributable to that source*

1 *including all of its related activities. Sources exempted from the*
2 *requirements of section (1) of this rule, which are identified in subsections*
3 *(5)(b) - (f), (j), and (k) of this rule, shall not be excluded from this ambient*
4 *measurement.*

5 *****

6 *(3) Measurement:*

7 *(a) Sound measurements procedures shall conform to those procedures which are*
8 *adopted by the Commission and set forth in Sound Measurement Procedures*
9 *Manual (NPCS-1), or to such other procedures as are approved in writing by the*
10 *Department;*

11 *(b) Unless otherwise specified, the appropriate measurement point shall be that*
12 *point on the noise sensitive property, described below, which is further from the*
13 *noise source:*

14 *A. 25 feet (7.6 meters) toward the noise source from that point on the noise*
15 *sensitive building nearest the noise source;*

16 *B. That point on the noise sensitive property line nearest the noise source.*

17 *(4) Monitoring and Reporting:*

18 *(a) Upon written notification from the Department, persons owning or controlling*
19 *an industrial or commercial noise source shall monitor and record the statistical*
20 *noise levels and operating times of equipment, facilities, operations, and*
21 *activities, and shall submit such data to the Department in the form and on the*
22 *schedule requested by the Department. Procedures for such measurements shall*
23 *conform to those procedures which are adopted by the Commission and set*
24 *forth in Sound Measurement Procedures Manual (NPCS-1);...*

25 *(5) Exemptions: Except as otherwise provided in subparagraph (1)(b)(B)(ii) of this rule,*
26 *the rules in section (1) of this rule shall not apply to:*

27 *****

28 *(c) Sounds created by the tires or motor used to propel any road vehicle*
29 *complying with the noise standards for road vehicles;*

30 *****

31 *(g) Sounds that originate on construction sites.*

32 *****

33 *(k) Sounds created by the operation of road vehicle auxiliary equipment*
34 *complying with the noise rules for such equipment as specified in OAR 340-035-*
35 *0030(1)(e);*

36 *****

37 The Oregon Department of Environmental Quality's (DEQ) Noise Control Regulations for
38 Industry and Commerce apply to operational noise from proposed energy facilities, as industrial
39 noise sources. In 1991, DEQ's Noise Control Program was terminated; however, the rules
40 remain in effect.²³⁴ Regulated sources of noise are legally responsible for complying with the
41 applicable provisions and standards of the regulations. As described above, because ORS
42 469.503(3) and the Council's General Standard of Review (OAR 345-022-0000) require Council

²³⁴ OAR 340-035-0110.

1 to find that a proposed facility complies with all other applicable requirements, which includes
2 DEQ’s noise control regulations, and because DEQ no longer implements, enforces or monitors
3 the regulations, Council assumes the authority as the decision maker to interpret and
4 implement the DEQ noise rules.

5

6 **Findings of Fact**

7

8 OAR 340-035-0035 establishes noise limits for new industrial or commercial noise sources
9 based upon whether those sources would be developed on a previously used or previously
10 unused site.^{235, 236} Section IV.E, *Land Use*, and ASC Exhibit K explain that the land within the site
11 boundary is private property in EFU zone, made up of two tracts owned by different property
12 owners. Landowner representations of the underlying land uses are that Tract 1 has not been
13 used for agricultural enterprise or farming and has never had water rights or been irrigated and
14 that Tract 2 has no water rights and farming was attempted however the land has been left
15 fallow.²³⁷ The Department recommends this as evidence that the proposed facility site has not
16 been in industrial or commercial use at any time during the last 20 years. Therefore, the
17 proposed facility is considered an industrial noise source and the site is considered a previously
18 unused site and evaluated per the requirements of OAR 340-035-0035(1)(b)(B). The analysis
19 area for evaluating compliance with the DEQ noise regulation includes the area within and
20 extending one-mile from the proposed site boundary as designated under OAR 345-021-0010
21 and the project order.

22

23 This section includes an evaluation of noise generated from construction activities to inform the
24 analysis under other applicable Council standards, however, under OAR 340-035-0035(5)(g)
25 construction-related noise is specifically exempt from the DEQ noise rules.

26

27 Operational noise generated by the proposed facility is assessed under OAR 340-035-
28 0035(1)(b)(B), which specifies that noise generated by a new industrial or commercial source
29 located on a previously unused site must comply with two standards: the “maximum allowable
30 noise standard,” and the “ambient noise degradation standard.” Both of these standards
31 represent allowable noise levels at “real properties normally used for sleeping,” otherwise
32 referred to as a noise sensitive receptor or NSR, or “noise sensitive property.”²³⁸ The applicant
33 used ariel imagery to preliminarily identify 12 NSRs within one mile of the proposed site
34 boundary and then verified the NSRs during field visits in July 2021, the Department also used

²³⁵ OAR 340-035-0015(47) defines a “previously unused industrial or commercial site” as “property which has not been used by any industrial or commercial noise source during the 20 years immediately preceding commencement of construction of a new industrial or commercial source on that property.”

²³⁶ OAR 340-035-0015(24) defines “industrial and commercial noise sources” as “noise generated by a combination of equipment, facilities, operations or activities employed in the production, storage, handling, sale, purchase, exchange, or maintenance of a...service.”

²³⁷ WESAPDoc3-11 ASC Exhibit K Land Use 2022-10-22, Section 4.3.2.

²³⁸ OAR 340-035-0015(38) “Noise Sensitive Property” means real property normally used for sleeping, or normally used as schools, churches, hospitals or public libraries. Property used in industrial or agricultural activities is not Noise Sensitive Property unless it meets the above criteria in more than an incidental manner.

1 ariel imagery to confirm these NSRs. The applicant states that all NSRs were identified as single-
 2 family residential structures or potential residence.²³⁹

- 3
- 4 • Under the maximum allowable noise standard at OAR 340-035-0035(1)(b)(B)(i), new
 5 industrial or commercial noise sources may not exceed the noise levels specified in
 6 Table 8 of DEQ noise rules, which are represented below in Table 16: *Statistical Noise
 7 Limits for Industrial and Commercial Noise Sources* below.
- 8

Table 16: Statistical Noise Limits for Industrial and Commercial Noise Sources

Statistical Descriptor ¹	Maximum Permissible Hourly Statistical Noise Levels (dBA)	
	Daytime (7:00 AM - 10:00 PM)	Nighttime (10:00 PM - 7:00 AM)
L50	55	50
L10	60	55
L1	75	60

Notes:
 1. The hourly L50, L10 and L1 noise levels are defined as the noise levels equaled or exceeded 50 percent, 10 percent, and 1 percent of the hour, respectively.
 Source: OAR 340-035-0035, Table 8

- 9
- 10 • Under the ambient noise degradation standard, facility-generated noise must not
 11 increase the ambient hourly L10 or L50 noise levels at any noise sensitive property by
 12 more than 10 dBA in any one hour, with ambient noise levels established based on noise
 13 measurements taken at an appropriate noise measurement location (point on the noise
 14 sensitive property line nearest to the noise source).

15

16 *Noise Generated from Construction Activities*

17

18 OAR 340-035-0035(5)(g) specifically exempts noise caused by construction activities; however,
 19 an evaluation of construction-related noise is presented in accordance with OAR Chapter 345
 20 Division 21 information requirements and to inform the construction-related noise analysis
 21 required under the Council’s Protected Areas and Recreation standards, found in Sections IV.F.,
 22 *Protected Areas*, and IV.L., *Recreation*, of this order.

23

24 Proposed facility construction activities that would generate noise include the delivery of
 25 construction equipment and materials, site preparation activities including brush clearing,
 26 internal road and access road construction, excavation and site preparation including grading,
 27 foundation pouring, erection and installation of components, interconnection to existing
 28 transmission lines, and finishing work required to prepare the facility for operation. Table 17:
 29 *Construction Equipment Maximum Noise Levels at 50 and 1200 Feet* shows typical sound levels

²³⁹ WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Section 8.0.

1 associated with common construction equipment and noise levels per phase at 50 feet from
 2 the site boundary and at the closest noise sensitive receptor (NSR). Predicted construction
 3 noise levels range from 23 to 63 dBA at 1,200 feet from the nearest NSR and from 55 to 95 dBA
 4 at 50 feet.²⁴⁰ The loudest equipment would be the pneumatic pile drive which is used for
 5 installing the solar panel posts.
 6

Table 17: Construction Equipment Maximum Noise Levels at 50 and 1200 Feet

Construction Phase	Construction Equipment	Usage Factor %	Max. Equipment Noise Level at 50 feet dBA	Composite Max. Equipment Noise Level at Nearest NSR 1200 feet dBA
Demolition	Excavators (168 horsepower [hp])	40	85	59
	Tractors/Loaders/Backhoes (108 hp)	40	80	
	Rough Terrain Forklifts (93 hp)	40	85	
	Dump Truck	40	85	
Site Preparation and Grading	Graders (174 hp)	40	85	61
	Rubber Tired Loaders (164 hp)	40	85	
	Scrapers (313 hp)	40	85	
	Water Trucks (189 hp)	40	88	
	Generator Sets	50	82	
Trenching and Road Construction	Excavators (168 hp)	40	85	61
	Graders (174 hp)	40	85	
	Water Trucks (189 hp)	40	88	
	Trencher (63 hp)	40	85	
	Rubber Tired Loaders (164 hp)	40	80	
	Generator Sets	50	82	
Equipment Installation	Crane (399 hp)	16	85	63
	Forklifts (145 hp)	40	85	
	Pile drivers	20	95	
	Pickup Trucks/ATVs	40	55	
	Water Trucks (189 hp)	40	88	
	Generator Sets	50	82	
Commissioning	Pickup Trucks/ATVs	40	55	23

Source: 2008 Federal Highway Administration (FHWA) Roadway Construction Noise Model, WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Table Y-4

7

²⁴⁰ For reference applicable to construction and operational noise, approximate sound levels for common sounds are 30 dBA for a soft whisper, 40 dBA for bird calls, 70 dBA for a vacuum cleaner, and 90 dBA for heavy truck or motorcycle traffic. ASC Exhibit Y, Table Y-2, adapted from EPA (U.S. Environmental Protection Agency). 1971. Community Noise. NTID300.3 (N-96-01 IIA-231).

1 Construction activities would occur sequentially for groupings of solar arrays, with the potential
2 for overlap of sections of solar arrays. The inverters and distribution transformers would likely
3 be completed while respective solar arrays are being constructed, other facility components,
4 such as operations and maintenance building, may occur independently from the solar array
5 installation. As discussed in Section III.B.1., *Facility Construction Activities*, construction of the
6 proposed facility is anticipated to take 9-12 months, however, under Recommended General
7 Standard of Review Condition 1, the Department recommends the applicant be allotted 24-
8 months to complete construction after construction has begun. Construction activities would
9 be intermittent with variable noise levels depending on the type of construction equipment
10 operating and is generally considered to be a temporary impact.

11

12 *Operational Noise*

13

14 The methods for the operational noise assessment including baseline noise measurements and
15 inputs into the noise model, compliance with OAR 340-035-0035(1)(b)(B) (maximum allowable
16 noise standard, and the ambient noise degradation standard) and recommended conditions of
17 approval, are provided below.

18

19 *Noise-Generating Equipment*

20

21 Noise-generating equipment associated with operation of the proposed facility would include
22 substation transformers, inverters and transformers for the solar arrays, and the cooling
23 systems necessary for the battery storage systems. Sound power level data was used as inputs
24 to the acoustic modeling analysis, where the applicant assumed the maximum number of noise-
25 generating equipment as:

26

27

28

29

30

- 25 inverters, 88 dBA per inverter
- 25 inverter step-up transformers, 77 dBA per transformer
- 2 main power transformers, 102 dBA per transformer
- 200 battery storage HVAC units, 98 dBA per unit

31

32

33

ASC Exhibit Y includes a noise assessment which assumes a maximum number of noise-
generating equipment in two different design or build-out scenarios:

34

35

36

37

38

39

1. Distributed Battery Storage (Figure Y-1): Eight (8) battery energy storage units
collocated with each of the 25 inverter skids (200 battery energy storage units total);
and
2. Centralized Battery Storage (Figure Y-2): Two hundred (200) battery storage units would
be located in one consolidated area in proximity to the collector substation.

40

41

42 *Methods and Results for Baseline Ambient Noise Levels*

43

44

To evaluate the maximum potential noise generated from a proposed facility, the noise
assessment must begin with a baseline, ambient, or existing noise level analysis because

1 existing noise levels at any site may vary depending on nearby roads, agricultural operations,
2 residences, weather, and wildlife, etc. The applicant conducted measurements of the existing
3 sound levels for both the daytime and nighttime periods because the proposed facility would
4 be operational during the day and nighttime hours.²⁴¹

5
6 Ambient sound measurements were collected on July 23 – 24, 2021, when the weather was
7 fair, with no precipitation and wind speeds ranged from 0 to 12 mph.²⁴² Three sound
8 measurement locations were selected within the analysis area at publicly accessible land in as
9 close proximity to NSRs as possible because access to the properties was not granted by
10 landowners.²⁴³ The measurement locations were selected to represent the nearest NSRs to the
11 site boundary and to facility components. OAR 340-035-0035(3)(b) establishes acceptable
12 procedures based on the DEQ Sound Measurement Procedure Manual (NPCS-1) adopted by the
13 DEQ’s Environmental Quality Commission, or as otherwise approved by the Department.
14 Pursuant to OAR 340-035-0035(1)(b)(B)(i) and -0035(3), noise standards must be evaluated at
15 an appropriate measurement point at noise sensitive properties. Unless otherwise specified,
16 the measurement point must be a point on the noise sensitive property either 25 feet toward
17 the noise source from that point on the noise sensitive building nearest the noise source, or a
18 point on the noise sensitive property line nearest the noise source, whichever is further.²⁴⁴ ASC
19 Exhibit Y, Figures Y-1 and Y-2 illustrate the Ambient Sound Monitoring Locations relative to the
20 representative NSRs that are closest to the proposed facility site boundary. In response to
21 Department information requests the applicant provided pictures of the monitoring positions
22 relative to the residences, which illustrate the close proximity to the NSR. Because of access
23 restrictions, the applicant placed the baseline measurement equipment at publicly accessible
24 land located near to each representative NSR location, this location would be closer to the
25 proposed noise source and further way from the NSR property which means anticipated noise
26 generated from the proposed facility experienced at each NSR may be less then represented in
27 the applicant’s modeling. The Department recommends Council find that the three locations
28 (ST-1, ST-2, ST-3) where the applicant evaluated baseline noise are appropriate because the
29 three locations are near NSRs that are closest to the site boundary which would be the NSR’S
30 most impacted by the worst-case noise scenario. The Department also recommends Council
31 find that the three baseline measurement points located on publicly accessible land closest to
32 the corresponding NSR are appropriate because the three locations are near NSRs that are
33 closest to the site boundary, and these locations are closer to the noise source and further from
34 the NSR residence, therefore a conservative location to gather baseline noise data.

²⁴¹ OAR 340-035-0035(1)(b)(A) defines daytime (7:00 AM – 10:00 PM) and nighttime (10:00 PM – 7:00 AM).

²⁴² WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Section 3.1.

²⁴³ WESAPDoc11-6 Applicant Responses to RAIs Exhibit D_F_G_M_O_W_X_V and ODFW Combined 2022-09-01 and 2022-09-07; Exhibit X-West End Solar Project_RAI NC-8_08-31-22.

²⁴⁴ The Sound Measurement Procedure Manual was developed in 1974 and last modified in 1983 and includes methodology based on hand tallies. As previously described, because DEQ does not fund, administer, or enforce the noise control requirements established in OAR 345-035-0035, yet they are applicable OARs to the proposed facility, the Council assumes authority to review, interpret, and apply the rules. Therefore, the Council has authority to review and approve sound measurement procedures that differ from the Sound Measurement Procedures Manual (NPCS-1) or the DEQ Noise Rules, when specified in the rules.

1
 2 All baseline measurements were taken with a Larson Davis 831 real-time sound level analyzer,
 3 equipped with a PCB model 377B02 ½-inch precision condenser microphone which meets or
 4 exceeds all requirements set forth in the American National Standards Institute standards for
 5 Type 1 sound level meters for quality and accuracy. During monitoring, the applicant made site-
 6 specific field observations where typical sound sources were related to traffic, wildlife (birds)
 7 and barking dogs. Noise from homes in the evaluation area was minimal most of the time, with
 8 items such as air conditioners or heat pumps producing noticeable sound within their
 9 immediate vicinity.²⁴⁵ Other sound sources that could reasonably be expected, though not
 10 observed during the survey, would be farm equipment during planting and harvest time, and
 11 impact sprinklers in the agricultural fields. Because the existing transmission lines are
 12 operational, sound from the transmission lines was included in the ambient baseline sound
 13 levels. Ambient sound monitoring location ML-1 is approximately 300 feet from the existing
 14 PacifiCorp transmission line and 1,000 feet from the existing Bonneville Power Administration
 15 transmission line. The existing Bonneville Power Administration transmission is approximately
 16 0.4 miles northeast of ML-2 and the existing PacifiCorp transmission line is approximately
 17 southwest of ML-3.²⁴⁶ Since corona noise from transmission lines occurs most frequently during
 18 foul weather (light rain) and fair-weather conditions were observed during the sound
 19 monitoring surveys, sound contribution of the existing transmission lines was minimal.
 20

21 Table 18: *Summary of Ambient Sound Survey Results* presents results at each monitoring
 22 location, which demonstrates that existing noise levels during the day and at night are generally
 23 low/quiet.

Table 18: Summary of Ambient Sound Survey Results

Baseline Monitoring Location ID	Distance to Nearest Facility Fence Line (feet/meters)	Time Period	Baseline Sound Level Metric			
			L _{eq}	L ₁₀	L ₅₀	L ₉₀
ST-1	1,172/357	Day	38	39	38	36
		Night	37	40	35	34
ST-2	3,897/1,188	Day	40	42	39	39
		Night	42	46	40	39
ST-3	5,247/1,599	Day	44	49	40	38
		Night	41	45	40	38

Leq = equivalent sound level; L10 = intrusive sound level; L50 = median sound level; L90 = residual sound level;
 UTM = Universal Transverse Mercator.
 Source: WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Table Y-3.

24
 25 *Methods and Results from Noise Assessment with Proposed Facility*
 26

²⁴⁵ WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Section 3.2.

²⁴⁶ WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Section 3.2.

1 The Cadna-A computer noise prediction model was used to calculate sound levels from the
2 operation of the proposed facility based on the maximum of noise-generating equipment and
3 two design scenarios bulleted above, 200 battery storage units with distributed and centralized
4 locations. Cadna-A is used to describe noise emission and propagation modeling from facilities
5 that consist of various equipment and technologies and has been used for noise modeling for
6 other EFSC-approved facilities.^{247, 248} Inputs and assumptions included in the Cadna-A computer
7 noise prediction model and outdoor noise propagation modeling are:

- 8 • All noise-generating equipment is operating concurrently during the daytime and
9 nighttime periods at the representative manufacturer-rated sound levels.
- 10 • Sound attenuation was calculated under weather conditions that are favorable for
11 sound propagation, such as for downwind propagation or atmospheric inversion,
12 conditions which are typically considered worst-case.
- 13 • Sound propagation from source to NSR locations incorporate physical effects including
14 geometric divergence, reflection from surfaces, atmospheric absorption, screening from
15 topography and obstacles, ground effects, source sound power, directivity, and
16 cumulative effects.
- 17 • It was assumed that all equipment would operate consistently during both daytime and
18 nighttime periods.
- 19 • For the acoustic modeling analysis, a semi-reflective value of $G = 0.5$ was used to
20 represent the analysis area, while a value of $G = 0$ was used to represent the facility site
21 boundary.²⁴⁹

22
23 The results of the noise modeling are provided below in Table 19 and Table 20. Table 19
24 provides the results of the noise modeling for the centralized battery storage layout and Table
25 X provides the results of the noise modeling for the distributed battery storage layout. As
26 demonstrated in Table 19, under the centralized battery scenario, the maximum allowable
27 noise standard of 50 dBA at L_{50} under OAR 340-035-0035(1)(b)(B), would not be exceeded and
28 the ambient statistical noise levels would increase by 6 dBA which is less than 11 dBA
29 therefore both the maximum allowable noise standard and the ambient noise degradation
30 standard are met.

²⁴⁷ MSEFAPPDoc4-1 Final Order on ASC for Madras Solar Energy Facility 2021-08-02; BSPAPPDoc2 Final Order on
ASC for Bakeoven Solar Project 2020-04-24.

²⁴⁸ The outdoor noise propagation model is based on the 1996 International Organization for Standardization (ISO)
9613, Part 2: "Attenuation of Sound during Propagation Outdoors".

²⁴⁹ Ground absorption rates are described by a numerical coefficient. For pavement and water bodies, the
absorption coefficient is defined as $G = 0$ to account for reduced sound attenuation and higher reflectivity. In
contrast, ground covered in vegetation, including suburban lawns, are acoustically absorptive and aid in sound
attenuation (i.e., $G = 1.0$). WESAPPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Section 4.3.

Table 19: Acoustic Modeling Results, Layout with Centralized Battery Storage

NSR ID	Time Period	Background Noise (dBA, L ₅₀)	Solar Project Noise (dBA)	Combined Noise (Background/Solar Project) (dBA)	Change in Noise (dBA)	Compliant with OAR 340-035-0035?
1	Day	38	39	42	4	Yes
	Night	35	39	41	6	Yes
2	Day	38	34	39	1	Yes
	Night	35	34	37	2	Yes
3	Day	40	33	41	1	Yes
	Night	40	33	41	1	Yes
4	Day	40	33	41	1	Yes
	Night	40	33	41	1	Yes
5	Day	40	34	41	1	Yes
	Night	40	34	41	1	Yes
6	Day	40	30	40	0	Yes
	Night	40	30	40	0	Yes
7	Day	38	31	39	1	Yes
	Night	35	31	37	2	Yes
8	Day	38	33	39	1	Yes
	Night	35	33	37	2	Yes
9	Day	39	34	40	1	Yes
	Night	40	34	41	1	Yes
10	Day	39	35	40	1	Yes
	Night	40	35	41	1	Yes
11	Day	39	33	40	1	Yes
	Night	40	33	41	1	Yes
12	Day	39	32	40	1	Yes
	Night	40	32	41	1	Yes

1
 2 As demonstrated in Table 20 below, under the distributed battery scenario, the maximum
 3 allowable noise standard of 50 dBA at L₅₀ under OAR 340-035-0035(1)(b)(B), would be
 4 exceeded at NSR 1 with a L₅₀ nighttime noise level of 51 dBA. Additionally, at NSR 1 with the
 5 distributed battery layout, the ambient statistical noise levels would increase by 13 dBA during
 6 the day and 16 dBA at nighttime, therefore, the ambient noise degradation standard is also
 7 not met. Thus, under the distributed battery layout, at one NSR, the applicant does not meet
 8 the maximum noise or the ambient noise degradation standards under OAR 340-035-0035,
 9 which is addressed under recommended conditions below.

10
 11

Table 20: Acoustic Modeling Results, Layout with Distributed Battery Storage

NSR ID	Time Period	Background Noise (dBA, L ₅₀)	Solar Project Noise (dBA)	Combined Noise (Background/Solar Project) (dBA)	Change in Noise (dBA)	Compliant with OAR 340-035-0035?
1	Day	38	51	51	13	No
	Night	35	51	51	16	No
2	Day	38	39	41	3	Yes
	Night	35	39	40	5	Yes
3	Day	40	36	41	1	Yes
	Night	40	36	41	1	Yes
4	Day	40	37	42	2	Yes
	Night	40	37	42	2	Yes
5	Day	40	39	42	2	Yes
	Night	40	39	42	2	Yes
6	Day	40	36	41	1	Yes
	Night	40	36	41	1	Yes
7	Day	38	38	41	3	Yes
	Night	35	38	40	5	Yes
8	Day	38	40	42	4	Yes
	Night	35	40	41	6	Yes
9	Day	39	44	45	6	Yes
	Night	40	44	45	5	Yes
10	Day	39	43	44	5	Yes
	Night	40	43	45	5	Yes
11	Day	39	41	43	4	Yes
	Night	40	41	43	3	Yes
12	Day	39	39	42	3	Yes
	Night	40	39	43	3	Yes

1
 2 The applicant’s noise modeling with a maximum operational capacity with maximum amount of
 3 noise-generating equipment under the distributed battery scenario results in the exceedance of
 4 the maximum allowable noise standard and the ambient noise degradation standard. Measures
 5 applicant may employ to ensure compliance with DEQ noise rules include detailed design of a
 6 distributed battery storage layout by siting the inverter skids/battery storage equipment an
 7 adequate distance away from NSR ID 1 to reduce the operational sound to a level compliant
 8 with the Oregon noise standard, specifying quieter equipment (when available), and/or
 9 installing improved acoustical enclosures or barriers. Final equipment specifications and noise
 10 warranty data and final locations of the inverter skids/battery storage units will be reviewed by
 11 an acoustician to ensure compliance with OAR 340-035-0035.

12

1 The applicant has not requested that Council consider an exception or variance under the
2 regulation; therefore, the facility is precluded from the maximum scenario presented with
3 distributed battery storage.²⁵⁰ The Department recommends impose the following condition to
4 ensure that final facility design and layout comply the maximum allowable noise standard and
5 ambient noise degradation standard.
6

7 **Recommended Noise Control Condition 1 (PRE):** Prior to construction, the certificate
8 holder shall provide to the Department:

- 9 a. Final facility layout; and number, type, and noise level (dBA) of all noise generating
10 equipment. Identify differences in equipment noise level (dBA), based on manufacturer
11 specifications, compared to noise levels presented in ASC Exhibit Y. If there are
12 differences in equipment noise level (dBA), certificate holder shall provide updated
13 acoustic modeling results, if determined necessary by the Department. The certificate
14 holder may rely on ambient noise measurements included in ASC Exhibit Y or may
15 obtain updated ambient noise measurements, if measurement locations and protocol
16 are approved by the Department.
17 b. If the final design of the facility includes distributed battery storage, provide an acoustic
18 modeling analysis using manufacturer based noise levels (dBA) that demonstrate
19 compliance with the ambient degradation standard and maximum allowable noise
20 standards. The certificate holder may rely on ambient noise measurements included in
21 ASC Exhibit Y or may obtain updated ambient noise measurements, if measurement
22 locations and protocol are approved by the Department.
23

24 Pursuant to the DEQ noise standards under OAR 340-035-0035(4)(a), the Council has authority
25 to require the owner of an operating noise source to monitor and record the statistical noise
26 levels upon written notification. In the event of a complaint regarding noise levels during
27 proposed facility operation, the Council has the authority to act in the place of DEQ to enforce
28 this provision to verify that the certificate holder is operating the facility in compliance with the
29 noise control regulations. Therefore, the Department recommends the Council adopt the
30 following conditions:
31

32 **Recommended Noise Control Condition 2 (PRO):** Prior to operation, the certificate
33 holder shall:

- 34 a. Identify a facility contact that will receive, track and respond to noise complaints
35 during facility operations.
36 b. Send to Noise Sensitive Receptors (NSRs) identified in ASC Exhibit Y Table Y-9,
37 information about the facility, facility operational noise levels and the process for

²⁵⁰ Applicant indicates the noise assessment, based on final design, will demonstrate that the facility meets the ambient noise degradation test and maximum allowable test at the appropriate measurement point for all potentially-affected noise sensitive properties, or that the applicant has obtained the legally effective easement or real covenant for expected exceedances of the ambient noise degradation test. The Department highlights that under OAR 340-035-0035 in place at the time of this order, does not contemplate “noise waivers” for solar facilities. WESAPDoc3-25 ASC Exhibit Y Noise 2022-10-22, Section 5.0.

1 filing a noise complaint to facility operational personnel, as identified in (a) of the
2 condition.

3
4 **Recommended Noise Control Condition 3 (OPR):** During operations, the certificate
5 holder shall track and respond to any noise complaints received. Certificate holder shall
6 notify the Department within three working days of receiving a noise complaint related
7 to the facility and shall identify the date the certificate holder received the complaint,
8 the nature of the complaint, the complainant’s contact information, the location of the
9 affected property, and any actions taken, or planned to be taken, by the certificate
10 holder to address the complaint.

11
12 **Conclusions of Law**

13
14 Based on the recommended findings of fact and compliance with the recommended condition
15 requiring the applicant to design the facility in a manner that does not exceed the DEQ noise
16 standards, the Department recommends the Council find that the proposed facility would
17 comply with the Noise Control Regulations in OAR 340-035-0035(1)(b)(B).

18
19 **IV.R.2 Removal-Fill Law**

20
21 The Oregon Removal-Fill Law (ORS 196.795 through 196.990) and Department of State Lands
22 (DSL) regulations (OAR 141-085-0500 through 141-085-0785) require a removal-fill permit if 50
23 cubic yards or more of material is removed, filled, or altered within any “waters of the state.”²⁵¹
24 The Council, in consultation with DSL, must determine whether a removal-fill permit is needed
25 and if so, whether a removal-fill permit should be issued. The analysis area for wetlands and
26 other waters of the state is the area within the site boundary. If a removal-fill permit is needed
27 for the facility, it is Council that makes a determination whether or not DSL should issue such a
28 permit.

29
30 **Findings of Fact**

31
32 ASC Exhibit J provides the applicant’s analysis of the presence or absence of wetlands and other
33 nonwetland waters of the state within the analysis area, which encompasses the 324 acre
34 proposed facility site boundary. To inform the analysis, the applicant conducted literature and
35 desktop reviews as well as field studies. The literature review included an evaluation of the
36 following sources:

37
38 The applicant’s consultant, Tetra Tech, and the Department reviewed the National Wetlands
39 Inventory (NWI) database for the presence of mapped wetland and waterways, the National
40 Hydrologic Database (NHD) which provides data about known hydrology, hydric soils data from
41 the Natural Resources Conservation Service, and aerial imagery from 2019 and 2020 Google
42 Earth 2019, 2020 to identify potential wetlands and other waters occurring within the analysis

²⁵¹ ORS 196.800(15) defines “Waters of this state.” The term includes wetlands and certain other waterbodies.

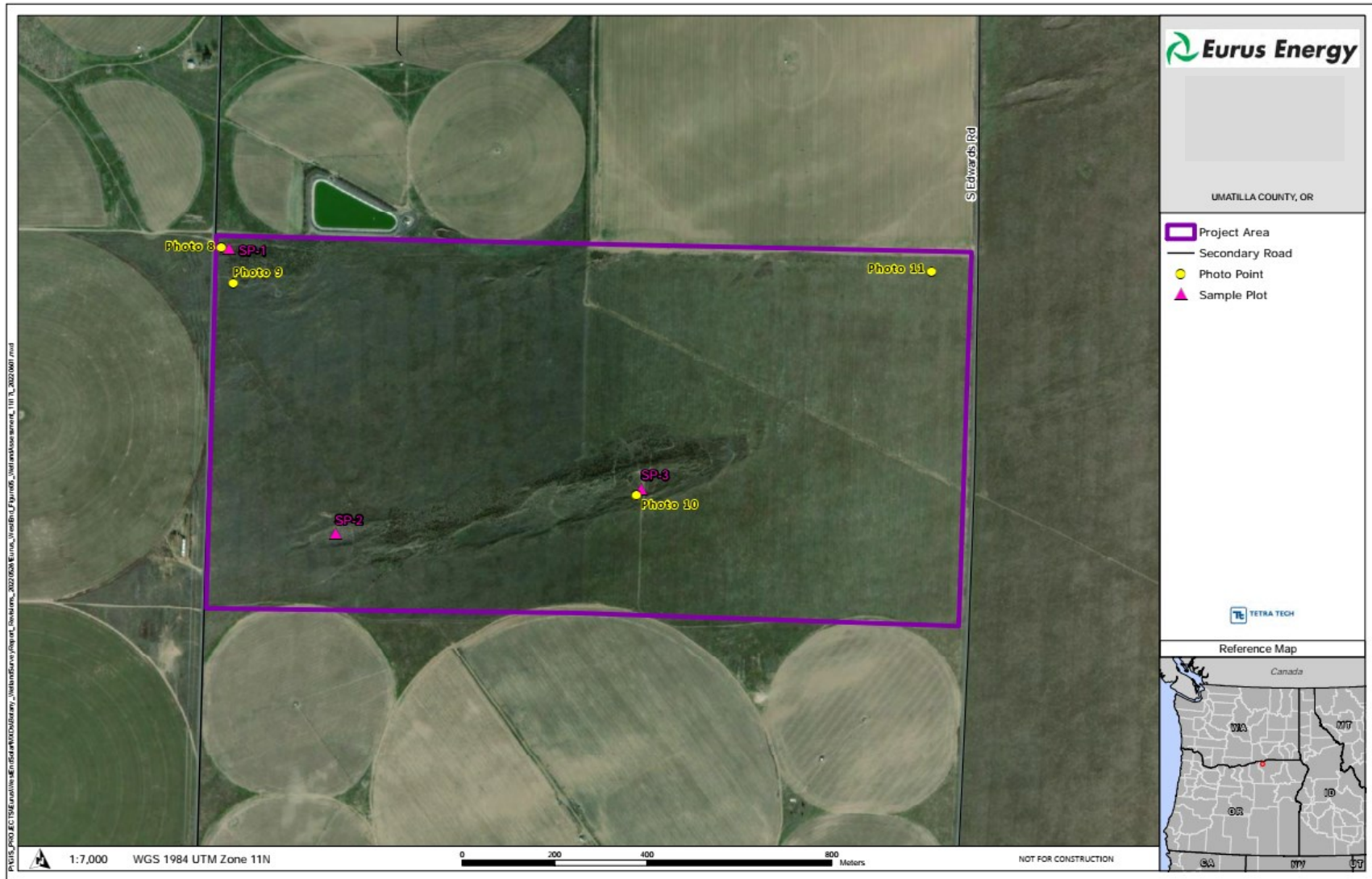
1 area. The review of NWI and NHD data and aerial imagery did not identify any wetlands or
2 stream features mapped within the site boundary. Data from the NRCS indicated that
3 approximately 73 percent of the site soils are Adkins fine sandy loam soils with zero to 5
4 percent slopes which is considered non-hydric, whereas 27 percent of the mapped soils are
5 Quincy fine sand which may meet the criteria for hydric soils, especially in areas where there
6 are depressions in the topography.²⁵²

7
8 To confirm the absence of wetland and water features, Tetra tech conducted field surveys for
9 wetlands and WOS following the methods in the 1987 *Wetlands Delineation Manual, Technical*
10 *Report Y-87-1* and the 2008 *Regional Supplement to the Corps of Engineers Wetland Delineation*
11 *Manual: Arid West*, which are the industry and DSL standard manuals directing on-site
12 delineation surveys as designated in OAR 141-090-0030.²⁵³ As recommended in these manuals,
13 three field indicators of wetlands (hydrophytic vegetation, hydric soils, and wetland hydrology)
14 must be present to make a positive wetland determination. Field surveys focused on
15 documenting the presence/absence of each of these indicators in order to conclude if wetlands
16 or other waters of the state were present in the analysis area. Figure 14 below illustrates the
17 locations where plants, soils, and hydrology were assessed within the site boundary.

²⁵² ASC Exhibit J Section 3.3 and Attachment J-1, Section 3.1.2.

²⁵³ OAR 141-090-0030 (1) Wetland determinations and delineations shall be conducted in accordance with the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual ("the manual"), including regional supplements and applicable guidance, and any supporting technical or guidance documents issued by the Department.

1 **Figure 14: Site Boundary Wetland Assessment Sample Plot Locations**



2

1 The Department submitted Attachment J-1, the Botanical and Wetland Survey Report which to
2 DSL on June 13, 2022, with an Off-site Determination Request for signed by the applicant. On
3 July 21, 2022, DSL provided its preliminary jurisdictional determination which indicated that;
4 “Based on available offsite information and additional information provided by the applicant, it
5 is unlikely that jurisdictional wetlands or waterways are present on the property.”²⁵⁴ The
6 Department also evaluates the presentation of data for hydrophytic vegetation, hydric soils,
7 and wetland hydrology below, and recommends Council find that it is not likely that wetlands
8 or other WOS are present within the site boundary and therefore, no removal-fill permit is
9 necessary for the construction and operation of the proposed facility.

10
11 *Hydrophytic vegetation*

12
13 As discussed above, desktop studies, literature review and consultation was conducted to
14 evaluate the presence of plant species associated with wetlands within the site boundary.
15 Further, the applicant’s consultant, Tetra Tech, conducted field surveys for botanical resources
16 and wetland/non-wetland waters on July 3, 2019, June 22, 2020, and May 19, 2022. Botanical
17 field surveys were conducted using the Intuitive Controlled survey method, standard and
18 accepted survey protocols used by the USFS and BLM which incorporates meandering transects
19 that traverse the site boundary, and that target the full array of major vegetation types,
20 aspects, topographical features, habitats, and substrate types.²⁵⁵ Attachment 2 of the Botanical
21 and Wetland Survey Report lists the vascular plants observed within the site boundary which
22 includes a column indicating each plants’ wetland indicator status from the Army Corps of
23 Engineer’s 2020 National Wetland Plant List for the Arid West Region, which indicates there
24 were not any Obligate or Facultative Wet plants observed in the site boundary.²⁵⁶ Attachment 4
25 of the 2019-2022 Botanical and Wetland Survey Report includes Wetland Determination Data
26 Forms used by wetland specialists and DSL to record features associated with soils, plants and
27 hydrology. The Dominance Test and Prevalence Index worksheets in the data forms indicate
28 that the majority of the species identified in the survey were predominantly Facultative Upland
29 species and that the Facultative species documented were intermixed with Upland (non-
30 wetland) plant species and for that reason, no area within the proposed site boundary meets
31 the criteria for hydrophytic vegetation.²⁵⁷

32

²⁵⁴ DSL also indicated that the offsite wetland and waters determination process is best reserved for property owners, real estate agents and appraisers, etc. interested in smaller properties. Determinations for larger study areas (such as this one) are best addressed by submitting a complete wetland delineation report to DSL for review and approval. WESAPDoc6-10 pASC Reviewing Agency Comment Offsite Determination No Wetlands_DSL_Ryan 2022-07-28.

²⁵⁵ ASC Exhibit J, Attachment J-1, Section 3.2.1.

²⁵⁶ Obligate = OBL plants that always occur in standing water or in saturated soils; FACW = Facultative Wet plants that nearly always occur in areas of prolonged flooding, standing water, or saturated soils; FAC= Facultative plants occur in a variety of habitats, including wetland and non-wetland habitats and commonly occur in standing water or saturated soils; FACU = Facultative Upland plants typically occur in non-wetland habitats but may frequently occur in standing water or saturated soils; and UPL = Upland plants almost never occur in water or saturated soils. USACE National Wetland Plan List Fact Sheet. In Attachment 2 applicant also includes NI = No Indicator.

²⁵⁷ ASC Exhibit J, Attachment J-1 2019-2022 Botanical and Wetland Survey Report, Section 4.3.

1 *Hydric soils*

2

3 As noted above and discussed in Section IV.D., *Soil Protection*, the data reviewed for the
4 analysis area shows that soils are comprised primarily (235.8 acres or 73 percent) of Adkins fine
5 sandy loam with zero to 5 percent slopes, and the remaining portions (88 acres or 27 percent)
6 are composed of Quincy fine sand with zero to 5 percent slopes.²⁵⁸ The Adkins fine sandy loam,
7 zero to 5 percent slopes soil type, is considered non-hydric, well-drained, with no frequency of
8 ponding or flooding.²⁵⁹ The NRCS describes hydric soil categories on a spectrum from hydric to
9 nonhydric, where “predominantly nonhydric” soils are soils where no major component listed
10 for a given map unit is rated as hydric, and at least one contrasting minor component is rated
11 hydric. Quincy fine sand soil does not contain a major component that is rated as hydric,
12 therefore it is considered “predominantly nonhydric” by NRCS’s State Soil Data Access Hydric
13 Soils Rating by Map Unit.²⁶⁰ Even so, because the Quincy fine sand located in depressions may
14 meet the criteria for hydric soils the consultant targeted these on-site depressional areas for
15 the field assessment conducted on May 19, 2022.²⁶¹ Attachment 4 of the 2019-2022 Botanical
16 and Wetland Survey Report includes Wetland Determination Data Forms which identify the
17 sample plots where soils were sampled in the areas of topographical depressions to a depth of
18 20 inches and there were not any hydric soil indicators listed from the soil sampling.

19

20 *Wetland hydrology*

21

22 As noted already, the applicant’s desktop review of NWI and NHD data did not identify any
23 wetlands or stream features mapped by the NWI or NHD within the analysis area. The sample
24 plots for the on-site surveys focused in the topographical depressions where it would be most
25 likely for there to be hydrological features present, these features can be seen in Figure 14: Site
26 *Boundary Wetland Assessment Sample Plot Locations*, above. The applicant indicates that none
27 of these areas would appear to hold water for a sustained period of time. Other hydrologic
28 indicators of wetlands such as sediment deposits, water marks, or drainage patterns were also
29 not present and not documented in Attachment 4 of the 2019-2022 Botanical and Wetland
30 Survey Report Wetland Determination Data Forms. Visual comparison with the select site
31 photographs included as Attachment 3 also affirms the absence of hydrologic features.

32

33 The Department and DSL reviewed that applicant’s desktop data and results from the field
34 assessments, including subsurface investigations, conducted at the 3 locations most likely to
35 have wetland features and concur that they do not identify any hydrophytic vegetation, hydric

²⁵⁸ Exhibit J, Attachment J-1, Figure 3. See also References section in ASC Exhibit J.

²⁵⁹ ASC Exhibit J, Attachment J-1, Section 3.4.2 and NRCS Soil Map Unit Descriptions for the site boundary, accessed by Department 07-29-2022. <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>.

²⁶⁰ ASC Exhibit J Section 3.4.2 and State Soil Data Access (SDA) Hydric Soils Rating by Map Unit, accessed by Department 07-29-2022.

https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1389479.html#reportref.

²⁶¹ ASC Exhibit J, Attachment J-1, Botanical and Wetland Survey Report Figure 5, illustrates the locations within the depressional areas where sample plots and photographs were taken, which are provided in ASC Exhibit J, Attachment 3.

1 soils, or wetland hydrology. Based upon the Department’s review of the applicant’s wetland
2 survey data, independent confirmation of references, and cross-referencing information in ASC
3 Exhibit J, and the preliminary determination from DSL that it is unlikely that jurisdictional
4 wetlands or waterways are present on the property, the Department recommends Council find
5 that it is not likely that wetlands or other waters of the state are present within the site
6 boundary, and therefore, no removal-fill permit is necessary.

7
8 **Conclusions of Law**

9
10 Based on the foregoing findings of fact and conclusions, the Department recommends that the
11 Council find that a removal-fill permit is not needed for the proposed facility because there are
12 no wetlands or WOS present based on the lack of hydrophilic plants, hydric soils, and on-site
13 hydrology.

14
15 **IV.R.3 Water Rights**

16
17 Under ORS Chapters 537 and 540 and OAR Chapter 690, the Oregon Water Resources
18 Department (OWRD) administers water rights for appropriation and use of the water resources
19 of the state. Under OAR 345-022-0000(1)(b), the Council must determine whether the
20 proposed facility would comply with these statutes and administrative rules. OAR 345-021-
21 0010(1)(o)(F) requires that if a proposed facility needs a groundwater permit, surface water
22 permit, or water right transfer, that a decision on authorizing such a permit rests with the
23 Council.

24
25 **Findings of Fact**

26
27 As described in ASC Exhibit O and in Section IV.M., *Public Services* of this order, construction-
28 related water use would include civil and site preparation for road compaction and dust
29 suppression, as well as water used for concrete mixing for foundations, and fire protection.
30 Water trucks would be used to control dust generation in all disturbed areas during road
31 construction, foundation installation, final cleanup, reclamation, and restoration.

32
33 The applicant estimates that approximately 10.5 to 12.8 million gallons (Mgal) of water would
34 be used during a 12-month construction period for the uses described above, or about 1 Mgal
35 of water use per month. During proposed facility operation, water would be used for solar
36 module washing, approximately twice a year amounting to approximately 1.65 Mgal each year.
37 The applicant is not proposing the installation and operation of on-site wells.

38
39 The applicant maintains that no groundwater permit, surface water permit, or water right
40 transfer is needed for the construction and operation of the proposed facility because water for
41 facility construction and operation would be obtained under existing water rights held by the
42 City of Hermiston under an existing municipal water right. The applicant provided
43 correspondence from the City which confirms, that under normal circumstances, the City can

1 provide up to 18.3 Mgal of water for construction and operation of the facility.²⁶² Under OWRD
2 rules, examples of municipal water use include but are not limited to domestic water use,
3 irrigation of lawns and gardens, commercial water use, industrial water use, fire protection,
4 irrigation, and other water uses.²⁶³ Previously, OWRD has affirmed and Council has found that
5 water use for the construction and operation for the proposed facility qualifies under 690-300-
6 0010(25) as “industrial water use”, which includes the use of water associated with the
7 processing or manufacture of a product, such as the construction, operation, and maintenance
8 of an industrial site like a solar facility. The Department recommends Council find that the
9 proposed solar facility, as an industrial or commercial use, qualifies as a municipal use under
10 OWRD rules.

11
12 To affirm the facility’s water use during construction, and the ability of the City of Hermiston or
13 any other municipality, to provide water for facility construction, the Department recommends
14 the following condition.

15
16 **Recommended Water Rights Condition 1 (PRE):** Prior to construction of the facility,
17 facility component or phase, as applicable, the certificate holder shall:

- 18 a. Identify all water-related needs and estimate daily and annual water demand for
19 each construction phase, as applicable.
20 b. Provide excerpts of agreements or other similar conveyance from the water-
21 providing entity to the Department demonstrating that construction activities will be
22 adequately and legally served by service providers or third-party permits.

23
24 **Recommended Water Rights Condition 2 (CON):** During construction of the facility,
25 facility component or phase, as applicable, if a water right, limited water use license or
26 water rights transfer is needed and would not be obtained by a third-party, submit and
27 obtain approval of the applicable water permit through the site certificate amendment
28 process.

29
30 **Conclusions of Law**

31
32 Based on the foregoing findings of fact and recommended site certificate conditions, the
33 Department recommends that the Council conclude that the proposed facility does not need a
34 groundwater permit, surface water permit, or water right transfer.
35

²⁶² WESAPDoc3-15 ASC Exhibit O Attachment O-1. Record of Correspondence with the City of Hermiston

²⁶³ OAR 690-300-0010(29).

1 **V. PROPOSED CONCLUSIONS AND ORDER**

2
3 EE West End Solar LLC submitted an application for site certificate (ASC) to construct and
4 operate approximately 50-99 MWs of solar photovoltaic power generation equipment and
5 related or supporting facilities to be located in Umatilla County. Subject to the representations
6 in the ASC, compliance with the recommended site certificate conditions and based on the
7 preponderance of evidence on the record, the Department recommends Council find that:
8

- 9 1. The proposed West End Solar Project complies with the requirements of the Oregon
10 Energy Facility Siting Statutes, ORS 469.300 to 469.520.
11
12 2. The proposed West End Solar Project complies with the standards adopted by the
13 Council pursuant to ORS 469.501.
14
15 3. The proposed West End Solar Project complies with all other Oregon statutes and
16 administrative rules identified in the Project Order as applicable to the issuance of a
17 site certificate for the proposed facility.
18

19 Based on the recommended findings of fact, reasoning, recommended conditions and
20 conclusions of law in this proposed order, the Department recommends that Council conclude
21 that the applicant has satisfied the requirements for issuance of a site certificate for the
22 proposed West End Solar Project. The Department further recommends that, pursuant to ORS
23 469.401, the Chairperson execute the site certificate authorizing the applicant to construct,
24 operate and retire the facility subject to the conditions set forth in the site certificate.
25

26 **Issued this 13th day of January 2023**

The OREGON DEPARTMENT OF ENERGY

By: Todd Cornett
Todd Cornett (Jan 13, 2023 13:04 PST)

Todd Cornett, Assistant Director of Siting

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33

1 **Attachments:**

2 Attachment A: Recommended Site Certificate Conditions

3 (To be replaced in final order with Site Certificate)

4 Attachment B: Reviewing Agency Comments and Documents Relied upon in DPO and Proposed Order

5 Attachment C: Draft Proposed Order Index/Comments and Applicant Responses/Index

6 ~~Attachment D: Performance Guarantee Agreement~~

7 Attachment B-2: Draft SPCC Plan

8 Attachment I-1: Draft Erosion and Sediment Control Plan and Best Management Practices

9 Attachment P-3: Wildlife Monitoring and Adaptive Management Plan

10 Attachment P-4: Draft Noxious Weed Control Plan

11 Attachment P-5: Draft Habitat Mitigation Plan

12 Attachment S-3: Inadvertent Discovery Plan

13 Attachment U-1: Draft Traffic Management Plan

14 Attachment V-1: Draft Emergency Management and Wildfire Mitigation Plan

15 Attachment X-1: EFSC-Approved Bond and Letter of Credit Templates

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