

## **ESTERSON Sarah \* ODOE**

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**Subject:** FW: Carty - 30 Day Written Report - Electric ROW Outside the Site Certificate Boundary  
**Attachments:** Carty\_30 Day Report\_Final.pdf

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**From:** Lenna Cope [<mailto:Lenna.Cope@pgn.com>]

**Sent:** Thursday, April 20, 2017 6:33 PM

**To:** KILSDONK Duane \* ODOE <[Duane.Kilsdonk@oregon.gov](mailto:Duane.Kilsdonk@oregon.gov)>

**Cc:** CORNETT Todd \* ODOE <[Todd.Cornett@oregon.gov](mailto:Todd.Cornett@oregon.gov)>; WOODS Maxwell \* ODOE <[Maxwell.Woods@oregon.gov](mailto:Maxwell.Woods@oregon.gov)>

**Subject:** Carty - 30 Day Written Report - Electric ROW Outside the Site Certificate Boundary

Duane,

Please find attached an electronic copy of PGE's 30 Day Written Report as required by OAR 345-029-0010(3). Two hard copies of this report are being sent to your office. Please note that Attachment 2 to this report is a Change Request being submitted by PGE.

Please let me know if you have any questions.

**Lenna Cope**

Environmental Engineer

Portland General Electric

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Portland, OR 97204

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e: [Lenna.Cope@pgn.com](mailto:Lenna.Cope@pgn.com)



Portland General Electric Company  
121 SW Salmon Street • Portland, Oregon 97204

April 20, 2017  
Carty

Duane Kilsdonk  
Compliance Officer  
Energy Facility Siting Division  
Oregon Department of Energy  
550 Capitol Street NE  
Salem, OR 97301

Subject: 30 Day Written Report – Electric ROW Outside the Site Certificate Boundary

Dear Mr. Kilsdonk,

On March 24, 2017 Portland General Electric Company (PGE) provided notification to the Oregon Department of Energy (the Department) that PGE had discovered conditions or circumstances that may violate the terms or conditions of the Carty Generating Station Site Certificate (72-hour Notification). The notification was submitted in accordance with Condition 2.12 of the Site Certificate. The Department provided a response (Department Response Letter) to PGE's notification on April 5, 2017. The Department Response Letter acknowledged receipt of the initial notification and provided clarification regarding requested information for each requirement in Oregon Administrative Rule (OAR) 345-029-0010(3). This letter provides the information required by OAR 345-029-0010(3) which requires a written report be submitted to the Department within 30 days of the discovery; 345-029-0010(3)(a)-(e) outlines the required information. Please see below for the required information.

To summarize the 72-hour Notification, the backup station service power line for Grassland Switchyard extends north from the Grassland Switchyard underground approximately 500 feet where it ties into an existing PGE-owned 34.5 kilovolt (kV) transmission line (built as part of the Boardman Power Plant); it is estimated approximately 190 feet of the line extends north outside the Site Certificate boundary<sup>1</sup>. See the attached Figure 1. To install the line a small ditch was dug, the line was installed and the ditch was then backfilled. PGE estimates that the disturbance was 8 to 10 feet wide; since the line is entirely underground the ground disturbance was temporary and vegetation has been reestablished. Construction occurred in March 2015.

- a) **Requirement:** Discussion of the cause of the reported conditions or circumstances. The Department Response Letter further requested the following “*Provide an evaluation of the*

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<sup>1</sup> In the initial 72-hour notification the estimated distance provided was 160 feet. Using GIS information the distance has been confirmed at approximately 190 feet.

*process PGE uses to inform construction and operational personnel of the location and equipment specifications to ensure consistency with the ASC, Final Order and requirements of the site certificate, and explain any deficiencies in the process that may have contributed to the violation.” and “Section 3.0 of the Site Certificate specifies that the auxiliary power line from the existing Boardman plant to the Carty Generating Station would be installed in a below-grade electrical raceway that connects the Carty Generating Station to the Boardman Plant. In ASC Exhibit B, the electrical raceway is presented within the site boundary. Explain why the auxiliary power line was not constructed consistent with the approved description in the site certificate.”*

**Response:**

PGE employs a variety of methods to notify and require contractors of site certificate requirements; including providing the site certificate and application for site certificate in the contract documents and requiring compliance with the documents, verbally communicating site certificate requirements during specific site certificate compliance meetings during pre-construction, and PGE review of information provided by the contractor. Though this incident did not involve operational personnel they are informed of the site certificate requirements through specific site certificate meetings which review operational specific requirements and participating in preparation of annual reports which requires review of each condition. Additionally, during operations PGE holds Asset Management Plan (AMP) meetings where plant personnel, representatives from all engineering disciplines, Environmental and Licensing, and other PGE departments review the list of proposed projects at each generating site. Environmental and Licensing function at the meetings is to identify if any proposed projects could have site certificate or other environmental implications.

During preparation of a site certificate application much of the detailed design of a facility is not known, including precise locations of smaller supporting inter-facility connections and power lines and methods for providing backup power to certain systems. In the contract documents between PGE and the engineering, procurement, and construction (EPC) contractor the need for backup power to Grassland Switchyard was identified; however, the specific route or method was not specified. It was within the EPC contractor’s scope of work to design and construct the source of station service back up power and to comply with the conditions of the site certificate.

During detailed design and pre-construction site certificate compliance, general arrangement drawings and earthwork drawings prepared by the EPC contractor were reviewed by PGE and confirmed to show all work was planned within the site certificate boundary and consistent with the site certificate. In addition, construction constraint maps were prepared by PGE Environmental and Licensing staff and provided to the EPC

contractor prior to the start of construction. PDF versions of the constraint maps were provided to the Department in compliance with Condition 10.9(a). Information regarding all areas where permanent or temporary disturbance would occur was requested from the EPC contractor prior to starting construction. That information was used by PGE Environmental and Licensing staff to prepare the maps required by Conditions 10.7(b), 10.27(b), and 11.2. The information provided at that time by the EPC contractor did not indicate any disturbance in the affected area.

During pre-construction meetings and monthly meetings held during the early phases of construction when earthwork was being performed, PGE Environmental and Licensing staff regularly presented to the EPC contractor on various required site certificate conditions pertinent to the phase of construction (e.g. wetland buffers, Washington ground squirrel habitat, erosion control measures, culturally sensitive areas, etc.). The specific requirements reviewed were based on whether work was planned to be performed near any location that had site certificate restrictions. In January 2015, the figures prepared for Condition 10.7(b), 10.27(b), and 11.2 were updated after plans for additional disturbance areas were identified. At the time the additional disturbance was identified, PGE again requested the EPC contractor for files showing all areas of temporary and permanent disturbance. However, despite the figures being updated just prior to the station service backup power line being installed, in late March 2015 the disturbance was not identified in the drawings provided to PGE by the EPC contractor. Since the information provided by the EPC contractor did not represent any disturbance extending north from the switchyard it was never flagged by PGE Environmental and Licensing staff as an issue with regards to the site certificate boundary. Deficiencies in the above described process which may have contributed to the issue are that PGE relied on accurate information from the EPC contractor to prepare figures and confirm planned disturbances were in allowed construction areas, rather than explicitly requesting a proactive confirmation from the EPC contractor that each geographically dependent system was within the site certificate boundary.

Originally the EPC contractor planned to self-perform the design of the backup station service power line. However, late in the design process the EPC contractor shifted the scope of work to their design engineer; this may have contributed to the issue by causing a last minute change in scope that prevented the disturbance from being shown on figures provided to PGE Environmental and Licensing staff. Discussions regarding how to provide backup station service power to Grassland did not include PGE Environmental and Licensing staff because it was thought to be only an electrical discipline discussion. The site boundary was not shown on the switchyard layout drawing, which would have helped the design engineers and others involved in the routing of the line to recognize that a portion of the line was outside the site boundary even though PGE Environmental and

Licensing was not involved in review. The switchyard layout drawings issued for construction of the backup station service power line did include the wetland and wetland buffer layers provided in the constraint map files. The need for environmental review once a route and construction method was determined was not recognized by the EPC contractor, the EPC contractor's design engineer, or PGE staff involved in the decision making, in part because they did not recognize the location of the site certificate boundary.

Regarding Section 3.0 of the Site Certificate, the electric power cables described in Section 3.0 are the backup power for Carty Generating Station from the Boardman Plant. Those power cables were installed within the site certificate boundary and the location of those power cables was shown on disturbance maps provided to the Department on January 27, 2015. The line that was constructed outside of the site certificate boundary provides backup power to Grassland Switchyard from the Boardman Plant (backup station service power line). At the time the Application for Site Certificate was prepared, the specific method for providing backup power to Grassland Switchyard had not been decided, and therefore the backup station service line was not shown on figures. The backup station service line and primary station service line (from Carty to Grassland) were not specifically described in the application for site certificate, as they were not considered major components, structures and systems.

- b) **Requirement:** The date of discovery of the conditions or circumstances by the responsible party. The Department Response Letter further requested that PGE "*Explain how and by whom the issue was identified*".

**Response:** The condition or circumstance was discovered on March 21, 2017. The issue was identified when PGE prepared figures to respond to the Department's Request for Additional Information (RAI) for PGE's Request for Amendment No. 1. Design drawings were provided by Sargent and Lundy, the design engineer for Carty Unit 1 and owner's engineer for preliminary design of Unit 2 and Unit 3. The design drawings included the 34.5 kV backup station service power line. PGE's consultant preparing the Request for Amendment application, Ecology & Environment, imported the design drawings into the figures being revised for the RAI response and presented them at a regularly scheduled weekly project meeting for the amendment. At the meeting, Lenna Cope of PGE identified the issue as a site certificate compliance issue.

- c) **Requirement:** A description of the immediate response taken to correct the reported conditions or circumstances. The Department Response Letter further requested that PGE provide the following information "*To support an evaluation of PGE's response to the potential violation, provide specific dates that any site investigation activities were*

*completed and dates that the evaluation of potential impacts to existing site certificate conditions and standards were conducted.”*

**Response:** Since the condition or circumstance involved an already constructed physical asset, there was no immediate action that could be taken to correct the issue. One day following the discovery, PGE visited the affected area to view current site conditions and to confirm that the area was stabilized and there was no ongoing risk to resources. Prior to submitting the 72-hour Notification, PGE performed a review of available survey information for the area to identify if any surveys had been performed, and if so, whether the surveys indicate the presence of any protected species or plants, wetlands, or cultural resources in the area. Available survey information was reviewed to assess if any harm might have been caused to resources. PGE Environmental and Licensing department requested a Root Cause Analysis (RCA) on March 23, 2017 to help define the issue, identify cause and effects, and develop corrective actions to prevent recurrence. The RCA team was assembled and the RCA began on March 31, 2017. Results of the RCA informed the responses to bullet (a) above and (d) below. Preparation of the RCA was completed on April 18, 2017. Preliminary evaluation of each site certificate requirement required by bullet (e) below began once preliminary data from the RCA was available (approximately April 13, 2017); however, to ensure that PGE fully understood the issue to properly evaluate each condition final review of each site certificate condition was completed from April 17, 2017 to April 20, 2017.

- d) **Requirement:** A description of actions taken or planned to minimize the possibility of recurrence. The Department Response Letter further requested that PGE “*Provide corrective actions or measures PGE intends to implement to minimize the potential for facility components to be constructed inconsistently with the description in the ASC, Final Order and Site Certificate and to ensure that all components are constructed within the site boundary and in the approximate location proposed and approved.*”

**Response:** PGE has identified the following corrective actions to prevent recurrence:

1. Include this event in the lessons learned document for the design and construction of Carty Unit 1. The entry into the lessons learned document will emphasize the need to periodically remind PGE and contractor personnel of site certificate requirements and when PGE Environmental and Licensing reviews are necessary. Lessons learned documents for previously constructed facilities are reviewed by PGE staff when starting contract negotiations and construction on new generating facilities to minimize the chance of recurrence.
2. Revise the general specification file for future new generating plant projects to require:
  - a. Inclusion of the site certificate boundary drawing in requests for bid

- b. Include the site certificate boundary in the conceptual site arrangement drawing in PGE's specification. Engineers of all disciplines reference this drawing throughout projects because it contains design information; whereas a separate figure showing the site certificate boundary does not contain other design information and therefore may be overlooked by certain disciplines.
  - c. Require all applicable contractor-generated drawings to include the site certificate boundary, examples of applicable drawings would include site layout, routing drawings, general arrangement drawings or any other drawings that are geographically based.
  - d. Require a construction note on applicable drawings that states that all of the proposed work in the drawing has been verified to be within the site certificate boundary prior to start of construction. If part of the proposed work extends outside the site certificate boundary, PGE environmental review and agency approval is required in order to proceed with any work.
- 3. Review PGE Power Supply Engineering Services (PSES) project management procedures for enhancements to prevent recurrence in future projects; including:
  - a. Revise the checklist in PSE-00-PMP-001 'Project Scoping Document' to include site certificate boundary requirements in the environmental checklist and require completion of the environmental checklist as part of each discipline checklist
  - b. Revise the Project Change Request to include a reminder to check site certificate requirements.
- e) **Requirement:** For conditions or circumstances that may violate the terms or conditions of a site certificate, an assessment of the impact on the resources considered under the standards of Division 22 and 24 as a result of the reported conditions or circumstances. The Department Response Letter further requested that PGE "*Provide an evaluation of the terms of each site certificate condition and whether the construction and operation of the backup station service power line represents a violation of those specific terms*" and "*Provide an impact assessment in the form of a change request or request for amendment.*"

**Response:** Attachment 1 provides an evaluation of the terms of each site certificate condition and whether the construction and operation of the backup station service power line represents a violation. Attachment 2 provides an impact assessment in the form of a change request for the Carty Generating Station.

Please feel free to contact me at 503-464-2634 if you have any questions and to discuss next steps for PGE to correct the issue.

Sincerely,

A handwritten signature in blue ink that reads "Lenna Cope".

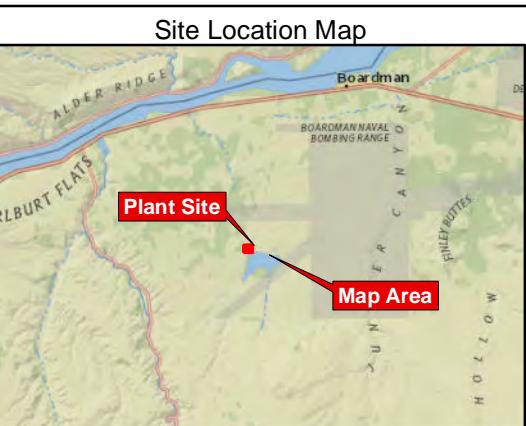
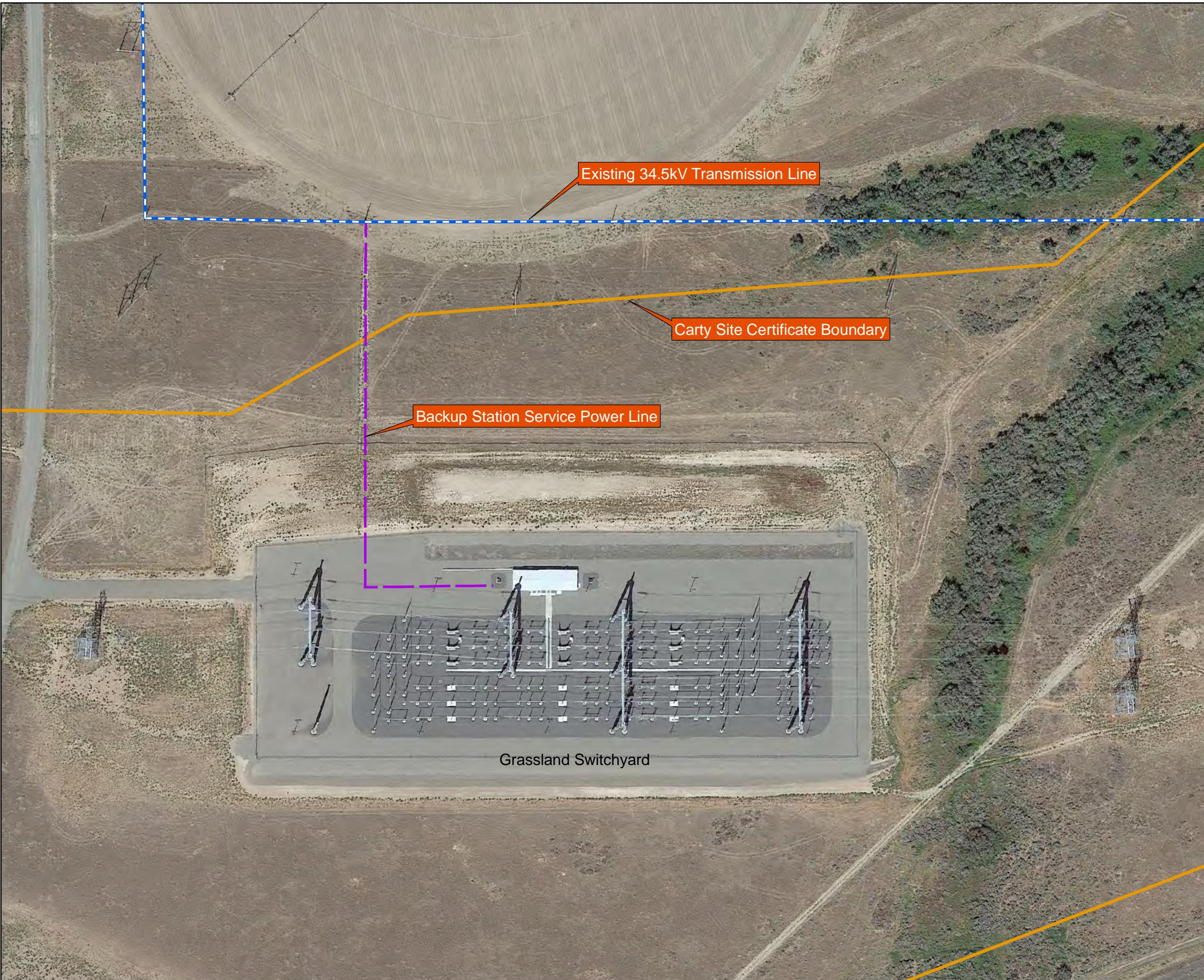
Lenna Cope, P.E.  
Environmental Engineer  
Portland General Electric

C:

Todd Cornett, Division Administrator, Oregon Department of Energy  
Maxwell Woods, Senior Policy Advisor, Oregon Department of Energy

Enclosures (3)

Figure 1  
Attachment 1  
Attachment 2



### Map Features

- Carty Site Certificate Boundary** (Orange line)
- Backup Station Service Power Line** (Purple line)
- Existing 34.5kV Transmission Line** (Blue dashed line)

0 75 150  
Feet



**Portland General Electric**  
Portland, Oregon

**Figure 1**  
**Backup Station Service**  
**30-day Written Response**  
**Carty Generating Station**

Date: 4/20/2017	Drawn By: J.B. Hoy	Rev.:
Drawing File: J:\Carty\Maps\Carty_Notification_Fig1.mxd		

## **Attachment 1**

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Carty Generating Station – Evaluation of Each Site Certificate Condition  
for Violation of Terms

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
<b>2.0 SITE CERTIFICATION</b>			
2.1	To the extent authorized by state law and subject to the conditions set forth herein, the State authorizes the certificate holder to construct, operate, and retire a natural gas-fueled energy generating facility, together with certain related or supporting facilities, at the site in Morrow County, Oregon, as described in Section 3.0 of this site certificate. [ORS 469.401(1)]	No	General condition
2.2	The site certificate is effective until 1) it is terminated under OAR 345-027-0110 or the rules in effect on the date that termination is sought; or 2) until the site certificate is revoked under ORS 469.440 and OAR 345-029-0100 or the statutes and rules in effect on the date that revocation is ordered. [ORS 469.401(1)]	No	General condition
2.3	Both the State and certificate holder shall abide by local ordinances, state law, and the rules of the Council in effect on the date this site certificate is executed. ORS 469.401(2). In addition, upon a clear showing of a significant threat to public health, safety, or the environment that requires application of later-adopted laws or rules, the Council may require compliance with such later-adopted laws or rules. [ORS 469.401(2)]	No	General condition
2.4	For a permit, license, or other approval addressed in and governed by this site certificate, the certificate holder shall comply with applicable state and federal laws adopted in the future to the extent that such compliance is required under the respective state agency statutes and rules. [ORS 469.401(2)]	No	General condition
2.5	Subject to the conditions herein, this site certificate binds the State and all counties, cities, and political subdivisions in Oregon as to the approval of the site and the construction, operation, and retirement of the facility as to matters that are addressed in and governed by this site certificate. [ORS 469.401(3)]	No	General condition
2.6	Each affected state agency, county, city, and political subdivision in Oregon with authority to issue a permit, license, or other approval addressed in or governed by this site certificate shall, upon submission of the proper application and payment of the proper fees, but without hearings or other proceedings, issue such permit, license, or other approval subject only to conditions set forth in this site certificate. [ORS 469.401(3)]	No	General condition
2.7	After issuance of this site certificate, each state agency or local government agency that issues a permit, license, or other approval for the facility shall continue to exercise enforcement authority over such permit, license, or other approval. [ORS 469.401(3)]	No	General condition

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

Cond. #	Description	Violation Determination	Reasoning
2.8	After issuance of this site certificate, the Council shall have continuing authority over the site and may inspect, or direct the Oregon Department of Energy (Department) to inspect, or request another state agency or local government to inspect, the site at any time in order to ensure that the facility is being operated consistently with the terms and conditions of this site certificate. [ORS 469.430]	No	General condition
2.9	The certificate holder shall design, construct, operate and retire the facility: (see a, b, & c below) [Final Order III.D.2] [Mandatory Condition OAR 345-027-0020(3)]	Yes	Because the 34.5 kV backup station service line was constructed outside the site boundary PGE did not design and construct the facility "substantially as described in the site certificate". PGE has submitted a Change Request to resolve this non-compliance.
2.9 (a)	a. Substantially as described in the site certificate;	Yes	See response to 2.9.
2.9 (b)	b. In compliance with the requirements of ORS Chapter 469, applicable Council rules, and applicable state and local laws, rules and ordinances in effect at the time the site certificate is issued; and	No	See response to 2.9.
2.9 (c)	c. In compliance with all applicable permit requirements of other state agencies.	No	See response to 2.9.
2.10	Before any transfer of ownership of the facility or ownership of the site certificate holder, the certificate holder must inform the Department of the proposed new owner(s). The requirements of OAR 345-027-0100 apply to any transfer of ownership that requires a transfer of the site certificate. [Final Order IV.B.2.8] [Mandatory Condition OAR 345-027-0020(15)]	No	Construction and operation of the 34.5 kV backup station service power line has no impact on ownership of the facility or site certificate.
2.11	Any matter of non-compliance under the site certificate is the responsibility of the certificate holder. Any notice of violation issued under the site certificate will be issued to the certificate holder. Any civil penalties assessed under the site certificate will be levied on the certificate holder. [Final Order IV.B.2.5]	No	General condition
2.12	Within 72 hours after discovery of conditions or circumstances that may violate the terms or conditions of the site certificate, the certificate holder must report the conditions or circumstances to the Department. [Final Order IV.B.2.7]	No	PGE provided notification to the Department within 72 hours of discovering the conditions or circumstances that may violate the terms or conditions of the site certificate. The issue was identified on March 21, 2017 and reported to the Department on March 24, 2017.

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

Cond. #	Description	Violation Determination	Reasoning
2.13	The council shall not change the conditions of the site certificate except as provided for in OAR Chapter 345, Division 27 [Final Order VI.1] [Mandatory Condition OAR 345-027-0020(1)]	No	General condition
<b>4.0 GENERAL ADMINISTRATIVE CONDITIONS</b>			
4.1	The certificate holder shall begin construction of the facility within three years after the effective date of the site certificate. Under OAR 345-015-0085(9), a site certificate is effective upon execution by the Council Chair and the applicant. The Council may grant an extension of the deadline to begin construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted. [Final Order III.D.3] [Mandatory Condition OAR 345-027-0020(4)]	No	Construction of the 34.5 kV line occurred in late March 2015 which is within the construction timeline required by this condition.
4.2	The certificate holder must complete construction of Block 1 of the facility within three years of beginning construction of Block 1. Construction is complete when: (see 1, 2, & 3 below) The certificate holder shall promptly notify the Department of the date of completion of construction of Block 1. The Council may grant an extension of the deadline for completing construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted. [Final Order III.D.4] [Mandatory Condition OAR 345-027-0020(4)]	No	Construction of the 34.5 kV line occurred in late March 2015 which is within the construction timeline required by this condition.
4.2(1)	1) the facility is substantially complete as defined by the certificate holder's construction contract documents;	No	See response to 4.2
4.2(2)	2) acceptance testing has been satisfactorily completed; and	No	See response to 4.2
4.2(3)	3) the energy facility is ready to begin continuous operation consistent with the site certificate.	No	See response to 4.2
4.3	The certificate holder must begin construction of Block 2 of the facility no later than five years after the effective date of the site certificate. The certificate holder shall complete construction of the facility within three years of beginning construction of Block 2. Construction is complete when: (see 1, 2, & 3 below) The certificate holder shall notify the Department when the construction of Block 2 begins, and notify the Department of the date of completion of Block 2 construction. The Council may grant an extension of the deadline for completing construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted. [Final Order III.D.5] [Mandatory Condition OAR 345-027-0020(4)]	No	Not applicable since the 34.5 kV backup station service line was constructed as part of Unit 1.
4.3(1)	1) Block 2 is substantially complete as defined by the certificate holder's construction contract documents;	No	See response to 4.3
4.3(2)	2) acceptance testing has been satisfactorily completed; and	No	See response to 4.3
4.3(3)	3) Block 2 is ready to begin continuous operation consistent with the site certificate.	No	See response to 4.3

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

Cond. #	Description	Violation Determination	Reasoning
4.4	<p>The certificate holder shall submit a legal description of the site to the Department of Energy within 90 days after beginning operation of the facility. The legal description required by this rule means a description of metes and bounds or a description of the site by reference to a map and geographic data that clearly and specifically identifies the outer boundaries that contain all parts of the facility.</p> <p>[Final Order III.D.1] [Mandatory Condition OAR 345-027-0020(2)]</p>	Yes	<p>The legal description submitted to the Department on October 27, 2016 did not include the outer boundaries that contain the 34.5 kV backup station service power line. An updated figure has been prepared and provided to the Department as part of this response in order to resolve this non-compliance.</p>
4.5	<p>The certificate holder shall obtain all necessary federal, state, and local permits or approvals required for construction, operation, and retirement of the facility or ensure that its contractors obtain the necessary federal, state, and local permits or approvals.</p> <p>[Final Order IV.B.2.4]</p>	No	<p>No other federal, state, or local permits were required for construction and operation of the 34.5 kV backup station service power line.</p>
4.6	<p>The certificate holder must obtain, as required by ORS 469.401(3), all local permits, to include a Conditional Use Permit for the portion of the Carty facility located on land zoned Exclusive Farm Use and a Zoning Permit for the entire facility located within Morrow County.</p> <p>[Final Order IV.E.4.6]</p>	Yes	<p>PGE will consult with the Morrow County to determine the appropriate measures necessary to resolve the issue.</p>
<b>5.0 PRE-CONSTRUCTION REQUIREMENTS</b>			
5.1	<p>Before beginning construction, the certificate holder shall notify the Department of the identity and qualifications of the major design, engineering, and construction contractor(s) for the facility. The certificate holder shall select contractors that have substantial experience in the design, engineering, and construction of similar facilities. The certificate holder must report to the Department any change of major contractors</p> <p>[Final Order IV.B.2.1]</p>	No	<p>Construction of the 34.5 kV backup station service power line was conducted by the major contractors identified to the Department in accordance with this site certificate condition.</p>

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

Cond. #	Description	Violation Determination	Reasoning
5.2	<p>The certificate holder must contractually require all construction contractors and subcontractors involved in the construction of the facility to comply with all applicable laws and regulations and with the terms and conditions of the site certificate. Such contractual provisions shall not operate to relieve the certificate holder of responsibility under the site certificate.</p> <p>[Final Order IV.B.2.3]</p>	No	The contract with the EPC did include the requirement specified in this site certificate condition.
5.3	<p>Before beginning construction of the energy facility, the certificate holder shall submit a final parking lot plan to Morrow County for approval as part of the certificate holder's building permit application for the energy facility.</p> <p>This parking lot plan shall comply with Section 4.040 and 4.060 of the Morrow County Zoning Ordinance and with Americans with Disabilities Act (ADA) requirements. This plan shall provide a minimum of 22 parking spaces and one ADA-accessible space, or the minimum number of parking spaces required by MCZO Section 4.040 based on the number of employees on the largest shift, whichever is greater. The certificate holder shall construct on-site parking in conformance with the approved parking lot plan.</p> <p>[Final Order IV.E.4.2] [MCZO Section 4.040-4.060]</p>	No	Construction of the 34.5 kV backup station service power line had no impact on PGEs ability to comply with the parking lot plan.
5.4	<p>Before beginning construction, the certificate holder must complete an investigation of subsurface soil and geologic conditions to identify geological or geotechnical hazards per Condition 5.4.a (Final Order IV.C.2.1.a) and obtain Department approval of the investigation report per Condition 5.4.b (Final Order IV.C.2.1.b).</p>	No	Construction of the 34.5 kV backup station service power line had no impact on PGEs ability to comply with the requirements in this condition which were satisfied prior to starting construction of the facility.
5.4 (a)	The investigation must include at least the following activities: (see 1, 2, & 3 below)	No	See response for 5.4
5.4 (a)(1)	1. Drilling of six to eight exploratory borings up to a depth of 75 feet under proposed critical structure locations, including the gas turbine units, cooling tower, transmission structures, and switchyard. Standard penetration tests should be conducted at 2.5-foot and 5-foot intervals. Drilling of exploratory borings along transmission line corridor is not necessary if such information is available from the construction of the existing transmission line.	No	See response for 5.4
5.4 (a)(2)	2. Digging of test pits to assess the extent and thickness of any loose, surficial soil layers at the site. Key focus areas should include planned locations of critical structures, roadways, and landscaped areas where irrigation would occur.	No	See response for 5.4
5.4 (a)(3)	3. Perform laboratory testing to evaluate the engineering properties of soils, including natural water contents on all samples collected, mechanical and hydrometer gradations, Atterberg limits, and collapsibility and consolidation tests on selected samples.	No	See response for 5.4

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
5.4 b	The certificate holder must prepare a geotechnical report with final facility design recommendations based on the investigation conducted per the requirements of Condition 5.4.a (Final Order IV.C.2.1.a). The geotechnical report must be submitted to the Oregon Department of Geology & Mineral Industries (DOGAMI) and the Department. The certificate holder may not commence construction of the facility prior to Department approval of this report.	No	See response for 5.4
5.5	During construction and operation of the facility, the certificate holder must implement a revegetation and weed control plan. The certificate holder must comply with the applicable provisions of the Morrow County and Gilliam County Weed Control Ordinances, as determined by the Morrow County Weed Control Supervisor, and Gilliam County Weed Officer, respectively. Prior to beginning construction the certificate holder must consult with the Morrow County Weed Control Supervisor and the Gilliam County Weed Control Officer and obtain approval of a Revegetation and Noxious Weed Control Plan. The final Revegetation and Noxious Weed Control Plan must be submitted to the Department of Energy for approval prior to the start of construction. [Final Order IV.D.2.6]	No	Construction and operation of the 34.5 kV backup station service power line has no impact on PGEs ability to comply with the requirements in this condition which were satisfied prior to starting construction of the facility.
5.6	Before beginning construction, the certificate holder must submit a Notice of Proposed Construction or Alteration to the Federal Aviation Administration (FAA) and the Oregon Department of Aviation identifying the final location of the facility exhaust stack. The certificate holder must promptly notify the Department of the responses from the FAA and the Oregon Department of Aviation. [Final Order V.D.2.5]	No	This condition is applicable to the facility exhaust stack.
5.7	Except as necessary for the initial survey or as otherwise allowed for wind energy facilities, transmission lines or pipelines under OAR 345-027-0020, the certificate holder shall not begin construction, as defined in OAR 345-001-0010, or create a clearing on any part of the site until the certificate holder has construction rights on all parts of the site. For the purpose of this rule, "construction rights" means the legal right to engage in construction activities. [Final Order III.D.6] [Mandatory Condition OAR 345-0027-0020(5)]	No	PGE had construction rights to the area where the 34.5 kV backup station service line was installed

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Cond. #	Description	Violation Determination	Reasoning
5.8	Before beginning construction, the certificate holder must notify the Department in advance of any work on the site that does not meet the definition of "construction" in ORS 469.300, (excluding surveying, exploration, or other activities to define or characterize the site), and must provide to the Department a description of the work and evidence that its value is less than \$250,000. [Final Order IV.B.2.6]	No	Construction of the 34.5 kV backup station service line was completed after beginning construction; therefore, PGE was not required to notify the Department of any work that does not meet the definition of "construction".
5.9	The certificate holder shall develop and implement a Spill Prevention, Control and Countermeasure (SPCC) Plan in accordance with 40 CFR 112. A copy of this plan shall be provided to the Department prior to the commencement of construction of the Carty Generating Station. [Final Order IV.G.2.1]	No	There is no oil associated with the 34.5 kV backup station service line; therefore, construction and operation of the line does not impact the SPCC plan.
<b>6.0 DESIGN CONSTRUCTION AND OPERATIONS</b>			
6.1	During construction, the certificate holder must have a full-time, on-site manager who is qualified in environmental compliance to ensure compliance with all site certificate conditions. The certificate holder must notify the Department of the name, telephone number, and e-mail address of this person prior to the start of construction and immediately upon any change in the contact information. [Final Order IV.B.2.2]	No	PGE complied with this condition throughout construction of Unit 1; including construction of the 34.5 kV backup station service power line.
6.2	The certificate holder shall provide portable toilets for on-site sewage handling during construction and shall ensure that they are pumped and cleaned regularly by a licensed contractor who is qualified to pump and clean portable toilet facilities. [Final Order IV.N.2.3]	No	Construction of the 34.5 kV backup station service line did not impact PGE's ability to provide and maintain portable toilets during construction.
6.3	The certificate holder shall implement a waste management plan during construction that includes but is not limited to the following measures: (see a-f below) [Final Order IV.N.2.1]	No	Construction of the 34.5 kV backup station service line did not impact PGE's ability to prepare and implement the waste management plan during construction.
6.3 (a)	a) Recycling steel and other metal scrap.	No	See response to 6.3
6.3 (b)	b) Recycling wood waste.	No	See response to 6.3
6.3 (c)	c) Recycling packaging wastes such as paper and cardboard.	No	See response to 6.3
6.3 (d)	d) Collecting non-recyclable waste for transport to a local landfill by a licensed waste hauler.	No	See response to 6.3
6.3 (e)	e) Segregating all hazardous wastes such as used oil, oily rags and oil-absorbent materials, mercury-containing lights and lead-acid and nickel-cadmium batteries for disposal by a licensed firm specializing in the proper recycling or disposal of hazardous wastes.	No	See response to 6.3
6.3 (f)	f) Confining concrete delivery truck rinse-out to a designated wash-out area and burying other concrete waste as part of backfilling.	No	See response to 6.3

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Cond. #	Description	Violation Determination	Reasoning
6.4	In advance of, and during, preparation of detailed design drawings and specifications for the 500-kV transmission line, the certificate holder shall consult with the Utility Safety and Reliability Section of the Oregon Public Utility Commission to ensure that the designs and specifications are consistent with applicable codes and standards. [Final Order V.D.2.3]	No	This condition is specific to the 500-kV transmission line; therefore, compliance with this condition was not impacted by construction of the 34.5 kV backup station service line.
6.5	The certificate holder must design, construct and operate the transmission line in accordance with the requirements of the National Electrical Safety Code (American National Standards Institute, Section C2, 1997 Edition, or its successor document). [Final Order IV.O.2.1] [Mandatory Condition OAR 345-027-0023(4)]	No	Design and construction of the 34.5 kV backup station service power line was completed in accordance with NESC requirements.
6.6	The certificate holder must design and construct the facility in accordance with requirements of the Oregon Structural Specialty Code (OSSC 2007) and the 2010 International Building Code. [Final Order IV.C.2.4]	No	The referenced Code's are not applicable to construction of an underground power line.
6.7	The Certificate holder must design, engineer and construct the facility to avoid dangers to human safety presented by seismic hazards affecting the site that are expected to result from all maximum probable seismic events. As used in this condition "seismic hazard" includes ground shaking, landslide, liquefaction, lateral spreading, tsunami inundation, fault displacement and subsidence. [Final Order IV.C.2.5] [Mandatory Condition OAR 345-027-0020(12)]	No	Design and construction of the 34.5 kV backup station service power line was completed in accordance with this condition because the maximum probable seismic event identified for the facility also applies to the 34.5 kV backup station service power line.
6.8	The Certificate holder must design, engineer and construct the facility to avoid dangers to human safety presented by non-seismic hazards. As used in this condition "non-seismic hazards" include settlement, landslides, flooding and erosion. [Final Order IV.C.2.6]	No	Design and construction of the 34.5 kV backup station service power line was completed in accordance with this condition because "non-seismic hazards" are not present in the area where the line was installed.
6.9	The certificate holder shall design and construct the facility using the minimum land area necessary for safe construction and operation. The certificate holder shall locate access roads and temporary construction laydown and staging areas to minimize disturbance of farming practices. [Final Order IV.E.4.1] [MCZO Section 3.010.D]	No	Design and construction of the 34.5 kV backup station service power line was sited to minimize the amount of disturbance necessary for installation.
6.10	The certificate holder must notify the Department, the State Building Codes Division and the Department of Geology and Mineral Industries promptly if site investigations or trenching reveal that conditions in the foundation rocks differ significantly from those described in the application for a site certificate. After the Department receives the notice, the Council may require the certificate holder to consult with the DOGAMI and the Building Codes Division and to propose mitigation actions. [Final Order IV.C.2.2] [Mandatory Condition OAR 345-027-0020(13)]	No	Excavation of the trench for the 34.5 kV backup station service power line did not reveal any findings significantly different from those described in the application for site certificate; therefore, no notification was necessary.
6.11	The certificate holder must notify the Department, the State Building Codes Division and the Department of Geology and Mineral Industries promptly if shear zones, artesian aquifers, deformations or clastic dikes are found at or in the vicinity of the site. [Final Order IV.C.2.3] [Mandatory Condition OAR 345-027-0020(14)]	No	Excavation of the trench for the 34.5 kV backup station service power line did not reveal any of the conditions specified in this site certificate condition; therefore, no notification was necessary.

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
6.12	During construction of the facility, the certificate holder shall ensure that contractors move equipment out of the construction area when it is no longer expected to be used. To the extent practical, contractors shall lower equipment with long arms, such as cranes, bucket trucks, and backhoes when not in use, in order to minimize visibility. [Final Order IV.J.2.1]	No	Contractors continued to comply with this site certificate condition throughout construction, including construction of the 34.5 kV backup station service power line.
6.13	To reduce the visual impact of the facility, the certificate holder shall paint the buildings and structures in low-reflectivity neutral colors to blend with the surrounding landscape. [Final Order IV.J.2.2]	No	There are no buildings or structures associated with the 34.5 kV backup station service power line that required painting.
6.14	The certificate holder shall not use exterior nighttime lighting except: (see a, b, & c below) [Final Order IV.J.2.3]	No	There is no nighttime lighting specifically associated with the 34.5 kV backup station service power line. Grassland Switchyard contains safety and security lighting which are installed in accordance with this condition.
6.14 (a)	a) The minimum exhaust stack lighting required or recommended by the Federal Aviation Administration.	No	See response to 6.14
6.14 (b)	b) Safety and security lighting at the Carty Generating Station, if such lighting is shielded or downward-directed to reduce offsite glare.	No	See response to 6.14
6.14 (c)	c) Minimum lighting necessary for repairs or emergencies.	No	See response to 6.14
6.15	Not in SC	No	Not used in site certificate
6.16	Not in SC	No	Not used in site certificate
6.17	During construction of the facility, the certificate holder shall implement measures to reduce traffic impacts, as follows: (see a & b below)  [Final Order IV.M.2.9]	No	Construction of the 34.5 backup station service power line did not have any impact on the amount of traffic traveling to and from the site, nor did it require any heavy equipment deliveries.
6.17 (a)	a) The certificate holder shall reduce peak hour volumes during construction by staggering shift start times or implementing other measures that would significantly reduce the total number of construction worker vehicle trips through the westbound I-84/Tower Road ramp terminal; or	No	See response to 6.17

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Cond. #	Description	Violation Determination	Reasoning
6.17 (b)	b) The certificate holder shall install temporary traffic controls during peak construction to prioritize westbound left-turning vehicles at the westbound Tower Road ramp terminal during the weekday a.m. peak hour.	No	See response to 6.17
6.18	Unless legally permissible, The certificate holder shall ensure that no equipment or machinery associated with the construction is parked or stored on any public road within Morrow or Gilliam counties. The certificate holder may temporarily park equipment off the road but within County rights-of-way with the approval of the County Roadmaster. [Final Order IV.M.2.10]	No	Construction equipment associated with construction of the 34.5 kV backup station service power line was staged at the laydown area for Grassland Switchyard; therefore no equipment was parked or stored on any public road with Morrow County.
6.19	The certificate holder shall cooperate with the Morrow County Public Works Department and the Gilliam County Road Department to ensure that any unusual damage or wear to county roads that is caused by construction of the facility is repaired by the certificate holder. Upon completion of construction, the certificate holder shall restore public roads to pre-construction condition or better to the satisfaction of applicable county departments. [Final Order IV.M.2.11]	No	Construction of the 34.5 backup station service power line did not have any impact on the amount of traffic traveling to and from the site, nor did it require any heavy equipment deliveries that may have impacted road conditions.
6.20	If improvements are needed to the I-84/Tower Road interchange to safely accommodate turning movements by a WB-67 design vehicle, the certificate holder shall work with The Oregon Department of Transportation and Morrow County to identify needed improvements and shall construct or install needed improvements prior to commencement of construction of the Carty facility. [Final Order IV.M.2.12]	No	No aspect of Carty Unit 1 construction required improvements to the I-84/Tower Road interchange; including construction of the 34.5 kV backup station service power line.
6.21	Oversize and overweight deliveries shall be made by rail and barge when feasible, to limit impacts to the I-84/Tower Road interchange. [Final Order IV.M.2.13]	No	Construction of the 34.5 kV backup station service power line did not require delivery of any oversized or overweight deliveries.
6.22	The certificate holder shall construct all facility components in compliance with the following setback requirements. The transmission lines, connecting the Carty Generating Station, the Grassland Switchyard and the Slatt Substation are exempt from this condition. [Final Order IV.E.4.3] [MCZO Section 3.010(H)]	No	Transmission lines are exempt from this condition.
6.22 (a)	For portions of the facility located in the Morrow County General Industrial Zoning District: (see i & ii below)	No	See response to 6.22

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
6.22 (a) (i)	i) The minimum setback between a structure and the right of-way of an arterial street shall be 50 feet. The minimum setback of a structure from the right-of-way of a collector shall be 30 feet, and from all lower class streets the minimum setback shall be 20 feet.	No	See response to 6.22
6.22 (a) (ii)	ii) Any sewage disposal installations such as outhouses, septic tank and drainfield systems shall be set back from the high-water line or mark along all streams and lakes a minimum of 100 feet, measured at right angles to the high-water line or mark. All structures, buildings, or similar permanent fixtures shall be set back from the high-water line or mark along all streams or lakes a minimum of 100 feet measured at right angles to the high-water line or mark.	No	See response to 6.22
6.22 (b)	For portions of the facility located in the Morrow County Exclusive Farm Use Zoning District: (see i - iv below)	No	See response to 6.22
6.22 (b) (i)	i. The front yard setback from the property line shall be a minimum of 100 feet if the property line is adjacent to an intensive agricultural use; otherwise, front yards shall be 20 feet for property fronting on a local minor collector or marginal access street right-of-way, 30 feet from a property line fronting on a major collector right-of-way, and 80 feet from an arterial right-of-way.	No	See response to 6.22
6.22 (b) (ii)	ii. Each side yard shall be a minimum of 20 feet except that for parcels or lots with side yards adjacent to an intensive agricultural use the adjacent side yard shall be a minimum of 100 feet.	No	See response to 6.22
6.22 (b) (iii)	iii. Rear yards shall be a minimum of 25 feet, except for parcels of lots with rear yards adjacent to an intensive agricultural use, where rear yards shall be a minimum of 100 feet.	No	See response to 6.22
6.22 (b) (iv)	iv. Any sewage disposal installations such as outhouses, septic tank and drainfield systems shall be set back from the high-water line or mark along all streams and lakes a minimum of 100 feet, measured at right angles to the high-water line or mark. All structures, buildings, or similar permanent fixtures shall be set back from the high-water line or mark along all streams or lakes a minimum of 100 feet measured at right angles to the high-water mark.	No	See response to 6.22
6.23	The certificate holder must limit signage to directional signs necessary for deliveries and general site circulation. No sign shall be placed so as to interfere with visibility or effectiveness of any permanent traffic control device. No sign shall be placed so as to impede the sight distance triangle at any access point or intersection as specified in Section 4.020 of the Morrow County Zoning Code. No sign shall cause glare, distraction or other driving hazards within a street or road right-of-way. [Final Order IV.E.4.5] [MCZO Sections 4.020 and 4.070]	No	There is no signage associated with the 34.5 kV backup station service power line.

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Cond. #	Description	Violation Determination	Reasoning
6.24	The certificate holder shall comply with Section 5, Public Responsibilities, of the Morrow County Solid Waste Management Ordinance. Any hauling of solid waste from the Carty facility during construction, operation, or retirement shall be performed by a franchised solid waste hauler or otherwise comply with the Morrow County Solid Waste Management Ordinance. [Final Order IV.E.4.7] [Morrow County Waste Management Ordinance Section 5.000]	No	Construction of the 34.5 kV backup station service power line was completed following the same waste management plan applicable to the entire site. Operation of the 34.5 kV backup station service power line has not produced an waste.
6.25	Recycling by the certificate holder and certificate holder's contractors during construction, operation, and retirement of the Carty facility shall be done in accordance with Oregon Department of Environmental Quality regulations and shall be reported as part of the Morrow County wasteshed. [Final Order IV.E.4.8]	No	Construction of the 34.5 kV backup station service power line was completed following the same waste management plan applicable to the entire site. Operation of the 34.5 kV backup station service power line has not produced an recyclables.
<b>7.0 PUBLIC HEALTH AND SAFETY</b>			
7.1	The certificate holder shall take the following steps to reduce or manage human exposure to electromagnetic fields, [Final Order V.D.2.1]	Yes	See individual responses to the sub-conditions.
7.1 (a)	a) Constructing all aboveground transmission lines at least 200 feet from any residence or other occupied structure, measured from the centerline of the transmission line.	No	The 34.5 kV backup station service power line is an underground line.
7.1 (b)	b) Providing to landowners a map of underground and overhead transmission lines on their property and advising landowners of possible health risks from electric and magnetic fields.	Yes	A portion of the 34.5 kV backup station service power line is located on property owned by Threemile Canyon Farms, PGE has not provided Threemile Farms a map of the underground line or advised the landowner of possible health risks. PGE is preparing this information and will provide to Threemile Canyon Farms in order to resolve this non-compliance. Note that the underground line is constructed entirely within an existing ROW for PGE.
7.1 (c)	c) Designing and maintaining all transmission lines so that alternating current electric fields do not exceed 9 kV per meter at one meter above the ground surface in areas accessible to the public.	No	Design of the 34.5 kV backup station service power line utilized this design requirement.
7.1 (d)	d) Designing and maintaining all transmission lines so that induced voltages during operation are as low as reasonably achievable.	No	Design of the 34.5 kV backup station service power line utilized this design requirement.

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Cond. #	Description	Violation Determination	Reasoning
7.2	To protect the public from electrical hazards, the certificate holder must enclose the facility switchyard with appropriate fencing and locked gates. [Final Order V.D.2.2]	No	Construction and operation of the 34.5 kV backup station service power line does not prevent PGE from enclosing the switchyard with fencing and locked gates.
7.3	If the Council finds, at any time during facility operation, that cooling tower emissions are likely to contribute significantly to ground-level fogging or icing along public roads and to cause a significant threat to public safety, the certificate holder shall cooperate with appropriate local public safety authorities regarding implementation of reasonable safety measures, such as posting warning signs on affected roads. Cooperation may include, but is not necessarily limited to, the reimbursement of expenses for posting warning signs and implementing other safety measures. [Final Order V.D.2.4]	No	This condition pertains to the facility cooling towers.
7.4	The certificate holder must comply with all emergency planning and notification requirements of Emergency Planning and Community Right-to-Know Act (EPCRA) Section 302. [Final Order V.D.2.6]	No	The 34.5 kV backup station service power line does not have any associated "extremely hazardous substance"; therefore this condition does not apply to the line.
7.5	The certificate holder must comply with all emergency planning and notification requirements of Emergency Planning and Community Right-to-Know Act (EPCRA) Section 304, including reporting of any chemical release in an amount equal to or greater than the EPCRA reportable quantity for that chemical. [Final Order V.D.2.7]	No	The 34.5 kV backup station service power line does not have any associated "extremely hazardous substance"; therefore this condition does not apply to the line.
7.6	The certificate holder must report emissions, transfer, and waste management data for hydrazine and sodium nitrite as required by Section 313 of Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 6607 of the Pollution Prevention Act. [Final Order V.D.2.8]	No	The 34.5 kV backup station service power line does not have any associated "extremely hazardous substance"; therefore this condition does not apply to the line.
7.7	The certificate holder must comply with all reporting requirements of the comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), including reporting of any chemical release in an amount equal to or greater than the CERCLA reportable quantity for that chemical. [Final Order V.D.2.9]	No	The 34.5 kV backup station service power line does not have any associated chemicals that could trigger the reporting requirements in this condition.
7.8	The certificate holder shall notify the Department of Energy and the Morrow and Gilliam County Planning departments within 72 hours of any occurrence involving the facility if: (see a - c below) [Final Order V.D.2.10] [Mandatory Condition OAR 345-026-0170]	No	Construction and operation of the 34.5 kV backup station service power line has not cause any of the sub-conditions listed in a-c.
7.8 (a)	a. There is an attempt by anyone to interfere with its safe operation;	No	See response to 7.8.
7.8 (b)	b. A natural event such as an earthquake, flood, tsunami or tornado, or human-caused event such as a fire or explosion affects or threatens to affect the public health and safety or the environment; or	No	See response to 7.8.

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Cond. #	Description	Violation Determination	Reasoning
7.8 (c)	c. There is any fatal injury at the facility.	No	See response to 7.8.
7.9	<p>The certificate holder must develop and implement a program that provides reasonable assurance that all fences, gates, cattle guards, trailers, or other objects or structures of a permanent nature that could become inadvertently charged with electricity are grounded or bonded throughout the life of a line. A current copy of the electrical protection plan must be available at the O&amp;M building and provided upon request by ODOE staff.</p> <p>[Final Order IV.O.2.2] [Mandatory Condition OAR 345-027-0023(4)]</p>	No	<p>There are no objects or structures of a permanent nature that require grounding or bonding because of the 34.5 kV backup station service power line. The fence at Grassland Switchyard is grounded per NESC requirements; that is a requirement regardless of the existence of the 34.5 kV backup station service power line.</p>
<b>8.0 ON-SITE SAFETY AND SECURITY</b>			
8.1	<p>During construction and operation of the facility, the certificate holder shall provide for on-site security and shall establish good communications between on-site security personnel and the Morrow County Sheriff's Office. During operation, the certificate holder shall ensure that appropriate law enforcement agency personnel have an up-to-date list of the names and telephone numbers of facility personnel available to respond on a 24-hour basis in case of an emergency on the facility site.</p> <p>[Final Order IV.M.2.1]</p>	No	<p>Construction and operation of the 34.5 kV backup station service power line has no impact on security or communications with the Morrow County Sheriff's Office.</p>
8.2	<p>During construction, the certificate holder shall require that all on-site construction contractors develop and implement a site health and safety plan that informs workers and others on-site about first aid techniques and what to do in case of an emergency. The plan shall also include important telephone numbers and the locations of on-site fire extinguishers and nearby hospitals. The certificate holder shall ensure that construction contractors have personnel on-site who are first aid and CPR certified.</p> <p>[Final Order IV.M.2.2]</p>	No	<p>Construction of the 34.5 kV backup station service power line had no impact on the site health and safety plans prepared in compliance with this site certificate condition.</p>
8.3	<p>During operation, the certificate holder shall develop and implement a site health and safety plan that informs employees and others on-site about first aid techniques and what to do in case of an emergency. The plan shall also include important telephone numbers and the locations of on-site fire extinguishers and nearby hospitals.</p> <p>[Final Order IV.M.2.3]</p>	No	<p>Operation of the 34.5 kV backup station service power line had no impact on the site health and safety plan prepared in compliance with this site certificate condition.</p>
8.4	<p>During construction, the certificate holder shall ensure that construction vehicles and equipment are operated on graveled areas to the extent possible and that open flames, such as cutting torches, are kept away from dry grass areas.</p> <p>[Final Order IV.M.2.4]</p>	No	<p>Construction access for the 34.5 kV backup station service power line was from graveled areas to the extent possible and open flames were not necessary for the construction.</p>
8.5	<p>During operation, the certificate holder shall ensure that all on-site employees receive annual fire prevention and response training by qualified instructors or members of the local fire districts. The certificate holder shall ensure that all employees are instructed to keep vehicles on roads and off dry grassland, except when off-road operation is required for emergency purposes.</p> <p>[Final Order IV.M.2.5]</p>	No	<p>Operation of the 34.5 kV backup station service power line does not affect PGEs annual fire prevention and response training.</p>

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Cond. #	Description	Violation Determination	Reasoning
8.6	During construction and operation of the facility, the certificate holder shall ensure that all service vehicles are equipped with shovels and portable fire extinguishers of a 4500BC or equivalent rating. [Final Order IV.M.2.6]	No	This condition applies to service vehicles.
8.7	During construction and operation of the facility, the certificate holder shall develop and implement fire safety plans in consultation with the Boardman Rural Fire Protection District to minimize the risk of fire and to respond appropriately to any fires that occur on the facility site. In developing the fire safety plans, the certificate holder shall take into account the dry nature of the region and shall address risks on a seasonal basis. The certificate holder shall meet annually with local fire protection agency personnel to discuss emergency planning and shall invite local fire protection agency personnel to observe any emergency drill conducted at the facility. [Final Order IV.M.2.7]	No	Construction and operation of the 34.5 kV backup station service power line has not impacted the fire safety plans developed in compliance with this condition.
8.8	Upon the beginning of operation of the facility, the certificate holder shall provide a site plan to the Boardman Rural Fire Protection District. The certificate holder shall indicate the actual location of all facility structures on the site plan. The certificate holder shall provide an updated site plan if additional structures are later added to the facility. During operation, the certificate holder shall ensure that appropriate fire protection agency personnel have an up-to-date list of the names and telephone numbers of facility personnel available to respond on a 24-hour basis in case of an emergency on the facility site. [Final Order IV.M.2.8]	No	There are no structures related to the 34.5 kV backup station service power line.
<b>9.0 PROTECTION OF SOIL</b>			
9.1	The certificate holder must conduct all construction work in compliance with an Erosion and Sediment Control Plan (ESCP) satisfactory to the Oregon Department of Environmental Quality and as required under the NPDES Storm Water Discharge General Permit #1200-C. The certificate holder must include in the ESCP any procedures necessary to meet local erosion and sediment control requirements or storm water management requirements. [Final Order IV.D.2.1]	No	PGE conducted all construction work, including construction of the 34.5 kV backup station service power line, in compliance with a 1200-C permit. The area of construction for the 34.5 kV line was flat, minimally disturbed, and existing vegetation was left intact to prevent erosion issues.
9.2	During construction, the certificate holder to the extent practicable must limit truck traffic to improved road surfaces to avoid soil compaction [Final Order IV.D.2.2]	No	PGE complied with this condition throughout construction, including during construction of the 34.5 kV backup station service power line.
9.3	During construction, the certificate holder must implement best management practices to control any dust generated by construction activities, such as applying water to roads and disturbed soil areas. [Final Order IV.D.2.3]	No	PGE utilized water trucks to control dust throughout construction, including during construction of the 34.5 kV backup station service power line. The methods for digging the ditch and installing conduit produce minimal dust.

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Cond. #	Description	Violation Determination	Reasoning
9.4	During the construction of the facility, the certificate holder must complete the following monitoring to ensure that there are no significant potential adverse impacts to soils: (see a-e below) [Final Order IV.D.2.4]	No	See individual responses below:
9.4 (a)	a) During construction, monitor disturbed area erosion and sediment control measures at the active construction site on a weekly basis and every two weeks on inactive sites. Inspection of both active and inactive sites would occur at least daily during periods when 0.5 inches or more rain has fallen in a 24-hour period.	No	Erosion and sediment control measures were not necessary for the construction of the 34.5 kV backup station service power line due to the flat topography and amount of intact vegetation in the construction area; therefore, there were no measures to inspect.
9.4 (b)	b) The certificate holder must remove trapped sediment when storage capacity has been reduced by 50 percent. Sediments will be placed in an upland area certified by a qualified wetlands specialist.	No	See response to 9.4(a)
9.4 (c)	c) Observe and record color and turbidity within 35 feet upstream and downstream of locations where surface waters from the construction site(s) enter a receiving stream. Observations shall note whether sheen and floating matter is present or absent. Any apparent color and turbidity of the discharge, as well as any observable difference in comparison with the receiving stream shall be described. If there are observable differences, or any sheen or floating matter is present, the certificate holder must take immediate steps to identify and rectify the cause of the run-off to the stream.	No	See response to 9.4(a)
9.4 (d)	d) If any of the erosion and sediment control measures are deemed ineffective, different strategies and/or measures shall be implemented, maintained and monitored.	No	See response to 9.4(a)
9.4 (e)	e) After completing construction in an area, monitor the area until soils are stabilized, to evaluate whether construction-related impacts to soils are being adequately addressed by the mitigation procedures described in the Erosion and Sediment Control Plan and the Weed Control Plan. As necessary, implement follow-up restoration measures such as scarification and reseeding to address those remaining impacts.	No	See response to 9.4(a). In addition, the area was visited immediately after identification of the issue and confirmed to have revegetation established.
9.5	During facility operation, the certificate holder shall routinely inspect and maintain all transmission line corridors, roads, pads and trenched areas and, as necessary, maintain or repair erosion and sediment control measures and control the introduction and spread of noxious weeds. [Final Order IV.D.2.5]	No	Because of the flat topography and amount of existing revegetation already established that any future maintenance will be required; however, this will be included in future inspections.
9.6	Upon completion of construction, the certificate holder must restore vegetation to the extent practicable and shall landscape all areas disturbed by construction in a manner compatible with the surroundings and proposed use and in compliance with the Revegetation and Noxious Weed Control Plan. Upon completion of construction, the certificate holder shall remove all temporary structures not required for facility operation and dispose of all timber, brush, refuse and flammable or combustible material resulting from clearing of land and construction of the facility. [Final Order IV.D.2.7] [Mandatory Condition OAR 345-027-0020(11)]	No	Vegetation has been restored along the disturbance area associated with the 34.5 kV backup station service power line.

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Cond. #	Description	Violation Determination	Reasoning
9.7	During operation of the facility, the certificate holder shall restore areas that are temporarily disturbed during facility maintenance or repair activities using the same methods and monitoring procedures described in the Revegetation and Noxious Weed Control Plan. [Final Order IV.D.2.8]	No	This condition applies to future operations of the 34.5 kV backup station service power line if maintenance is required.
9.8	The certificate holder must dispose of all accumulated evaporation pond solids, when removed, in a landfill approved for such waste material. All residual solids deposited in evaporation ponds must be removed to an appropriate disposal facility upon closure of the facility. The certificate holder shall include protocols for solids removal and soil restoration at the location of the evaporation ponds in the retirement plan. [Final Order IV.D.2.9]	No	This condition applies to evaporation pond solids.
9.9	During operation, the certificate holder must minimize drift from the cooling towers through the use of high efficiency drift eliminators that allow no more than a 0.001% drift rate. [Final Order IV.D.2.10]	No	This condition applies to cooling towers.
9.10	The certificate holder must handle hazardous materials used on the site in a manner that protects public health, safety and the environment and shall comply with all applicable local state and federal environmental laws and regulations. The certificate holder may not store gasoline on the facility site. [Final Order IV.D.2.11]	No	Construction and operation of the 34.5 kV backup station service power line does not require the use of hazardous materials.
9.11	If a reportable release of hazardous substance occurs during construction or operation of the facility, the certificate holder must notify the Department within 72 hours and must clean up the release and dispose of any contaminated soil or other materials according to applicable regulations. The certificate holder shall make sure that spill kits containing items such as absorbent pads are located on equipment, near storage areas, and in the administrative or maintenance areas of the facility. The certificate holder must instruct employees about proper handling, storage and cleanup of hazardous materials. [Final Order IV.D.2.12]	No	Construction and operation of the 34.5 kV backup station service power line does not require the use of any hazardous substances that could require spill reporting.
<b>10.0 PROTECTION OF NATURAL RESOURCES</b>			
10.1	Prior to construction, the certificate holder must consult with the Oregon Department of Fish and Wildlife and prepare a final Wildlife and Habitat Monitoring Mitigation Plan and submit the plan to the Department for review and approval. The certificate holder must conduct all wildlife and habitat monitoring as described in the approved Wildlife and Habitat Monitoring and Mitigation Plan, as amended from time to time. [Final Order IV.H.2.1] [Mandatory Condition OAR 345-027-0020(6)]	No	PGE received approval of the required plan prior to starting construction and construction and operation of the 34.5 kV backup station service power line has complied with the requirements of the plan.

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Cond. #	Description	Violation Determination	Reasoning
10.2	<p>The certificate holder shall acquire the legal right to create, enhance, maintain and protect a habitat mitigation area as long as the site certificate is in effect by means of an outright purchase, conservation easement or similar conveyance and shall provide a copy of the documentation to the Department. Within the habitat mitigation area (HMA), the certificate holder shall improve and monitor the habitat quality in accordance with the Wildlife and Habitat Monitoring and Mitigation Plan approved by the Department per Condition 10.1.</p> <p>[Final Order IV.H.2.2]</p>	No	<p>PGE has acquired the habitat mitigation area required by this condition.</p>
10.3	<p>The certificate holder shall consult with the Oregon Department of Fish and Wildlife prior to commencement of construction to determine the final acreage of habitat mitigation required. Mitigation shall be provided in accordance with this final acreage determination.</p> <p>[Final Order IV.H.2.3]</p>	No	<p>PGE consulted with ODFW to determine the final acreage of habitat mitigation required. The total amount required was initially calculated to be 61 acres during pre-construction. The acreage was updated in consultation with ODFW after additional disturbance areas were identified, the new total was calculated to be 73 acres. The total acreage of the habitat mitigation area is 78 acres. The total disturbance created by construction of the 34.5 kV backup station service power line was 500 feet long and approximately 8 to 10 feet wide; which equals 0.11 acres of disturbance (assuming 10 foot wide disturbance). The extra 5 acres in the habitat mitigation area is more than adequate to mitigate for the disturbance.</p>
10.4	<p>The certificate holder shall conduct noxious weed inventories within the HMA to identify patches of weed infestation during year one, year three and year five after construction, and then continue once every 5 years for the life of the project. Weeds shall be controlled as needed to maintain and enhance habitat quality within the mitigation area, with the goal of working toward eradication of targeted noxious weeds or, if eradication is not practical, decreasing their abundance to minimize impacts to native plant communities. Weed management practices shall be consistent with the Revegetation and Noxious Weed Control Plan and shall include an integrated weed management approach, using an appropriate combination of prevention and control methods. The certificate holder shall obtain ODFW approval prior to the use of pesticides. If a substantial area of soil is left bare from weed control activities, the area shall be seeded using the appropriate methods as described in the Revegetation and Noxious Weed Control Plan. Weed inventories and control measures and revegetation activities should not occur during Washington ground squirrel breeding periods.</p> <p>[Final Order IV.H.2.5]</p>	No	<p>This condition applies to the HMA.</p>

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
10.5	<p>The certificate holder shall implement a fire control plan for wildfire suppression within the HMA in accordance with the existing Boardman Wildfire Control Plan. A copy of the fire control plan shall be provided to the Department upon request. If vegetation in the HMA is damaged from fire or from fire suppression efforts (e.g., vehicular disturbance), the area shall be seeded as necessary with the appropriate seed mix using the appropriate methods for the site, as described in the Revegetation and Noxious Weed Control Plan.</p> <p>[Final Order IV.H.2.6]</p>	No	This condition applies to the HMA.
10.6	<p>The certificate holder shall monitor and control access to the HMA and shall post signs for the life of the facility designating the area as "protected" and including natural resources information. Access to the proposed area shall be limited to Boardman Plant operation needs, conservation area monitoring, and noxious weed control efforts. Any fences within or bordering the HMA shall be modified to wildlife-friendly specifications. Livestock grazing shall not be permitted within the HMA. Periodic monitoring (at least annually) shall be conducted to evaluate effectiveness of access control measures and signage maintenance needs.</p> <p>[Final Order IV.H.2.7]</p>	No	This condition applies to the HMA.
10.7	<p>The certificate holder shall implement the following measures to mitigate impacts to sensitive wildlife habitat during construction: (see a - d below)</p> <p>[Final Order IV.H.2.9]</p>	Yes	See responses to individual sub-conditions (a)-(d)
10.7 (a)	The certificate holder shall not construct any facility components within areas of Category 1 habitat and shall avoid temporary disturbance of Category 1 habitat.	No	Construction of the 34.5 kV backup station service power line did not occur in Category 1 habitat.

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
10.7 (b)	<p>Before beginning construction, the certificate holder shall provide to the Department a map showing the final design locations of all components of the facility and the areas that would be disturbed during construction and identifying the survey areas for all plant and wildlife surveys conducted in 2010 or earlier as described in the Final Order on the Application.</p> <p>The certificate holder shall use a qualified professional biologist to conduct a pre-construction plant and wildlife investigation of all areas that would be disturbed during construction that lie outside of the previously surveyed areas. The certificate holder shall provide a written report of the investigation to the Department and to the Oregon Department of Fish and Wildlife.</p> <p>Based on consultation with the Department and ODFW, the certificate holder shall implement appropriate measures to avoid impacts to any Category 1, 2, or 3 habitat, to any State-listed threatened or endangered plant or wildlife species, and to any State Candidate plant species. If any Category 2 or 3 habitat is identified and will be impacted, the certificate holder shall work with the Department and ODFW to identify appropriate mitigation measures for such impacts.</p>	Yes	<p>PGE did not include the disturbance associated with construction of the 34.5 kV backup station service power line on the maps provided to the Department prior to starting construction or on updated maps provided to the Department on January 27, 2015.</p> <p>Note, the area impacted by construction of the 34.5 kV backup station service power line has been surveyed for plants, wildlife and habitat prior to construction and no sensitive resources were identified at this location. Specifically, the area was surveyed for Washington Ground Squirrels and incidentally for other special status plant and animal species, in 2009, 2012 and 2013 for the Carty Generating Station and the results of those surveys were provided to the Department and ODFW. The area was also surveyed in 2016 as for the Carty Generating Station Request for Amendment No. 1 and most of the area was surveyed in 2011, 2012, and 2015 for the Carty Lateral Pipeline Project, as shown in Figure A. None of the surveys identified any protected plant or wildlife species in this area.</p> <p>PGE will prepare an updated map showing disturbance areas and provide to the Department in order to resolve this non-compliance issue.</p>
10.7 (c)	<p>Before beginning construction, the certificate holder's qualified professional biologist shall survey the previously-identified Category 1 Washington ground squirrel habitat to ensure that the sensitive use area is correctly marked with exclusion flagging and avoided during construction. The certificate holder shall maintain the exclusion markings until construction has been completed.</p>	No	<p>There is no "previously identified Category 1 Washington ground squirrel habitat" in the area where construction of the 34.5 kV backup station service power line occurred.</p>
10.7 (d)	<p>Before beginning construction, certificate holder's qualified professional biologist shall complete aerial raptor nest surveys within the raptor nest survey area as described in the Final Order on the Application. The purposes of the survey are to identify any sensitive raptor nests near construction areas and to provide baseline information on raptor nest use for analysis as described in the Wildlife and Habitat Monitoring and Mitigation Plan referenced in Condition 10.1. The certificate holder shall provide a written report on the raptor nest surveys to the Department and to ODFW.</p>	No	<p>The area where construction occurred for the 34.5 kV backup station service power line is within the area that PGE conducted raptor nest surveys in 2014 and 2015.</p>

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Cond. #	Description	Violation Determination	Reasoning
10.8	<p>During construction, the certificate holder shall avoid all construction activities within one mile of golden eagle nests, 0.5 miles of the Horn Butte Area of Critical Environmental Concern (ACEC), and 0.6 miles of ferruginous hawk nests, and 1,300 feet of other potentially active sensitive raptor species nest sites for the following species during the sensitive period, as provided in this condition:</p> <p><b>Species Sensitive Period Early Release Date</b></p> <p>Swainson's hawk April 1 to August 15 (May 31 Early Release Date)  Ferruginous hawk March 15 to July 15 (May 31 Early Release Date)  Golden eagle January 1 to July 15 (May 31 Early Release Date)  Burrowing owl April 1 to August 15 (July 15 Early Release Date)  Long-billed curlew March 8 to June 15 (May 31 Early Release Date)</p> <p>(continued below)</p> <p>During all years in which construction occurs, the certificate holder shall use a protocol approved by the Oregon Department of Fish and Wildlife (ODFW) to determine whether there are any active nests of these species within specified distances that would be disturbed during construction. This construction buffer distance may be decreased with approval by ODFW and USFWS. The certificate holder shall begin monitoring potential nest sites by the beginning of the sensitive period, as listed above, and shall continue monitoring until at least May 31 (July 15 for golden eagle nests) to determine whether any potentially-active nest sites become active during the sensitive period.</p> <p>If any nest site is determined to be unoccupied by the early release date, then unrestricted construction activities may occur within the buffers. If a nest is occupied by any of these species after the beginning of the sensitive period, the certificate holder will flag the boundaries of the buffer area around the nest site and shall not engage in prohibited activities in the buffer area. The certificate holder must use a qualified independent professional biologist to observe the active nest sites during the sensitive period for signs of disturbance and to notify the Department of any non-compliance with this condition.</p> <p>[Final Order IV.H.2.10]</p>	No	<p>None of the listed species in this condition were found in the vicinity of the project in 2014 or 2015; therefore the buffer and time requirements outlined in this condition were not applicable to construction of the 34.5 kV backup station service power line.</p>
10.9	<p>The certificate holder shall implement the following measures to avoid or mitigate impacts to sensitive wildlife habitat during construction: (see a - d below)</p> <p>[Final Order IV.H.2.11]</p>	Yes	<p>See responses to individual sub-conditions (a)-(d) below.</p>
10.9 (a)	<p>a) preparing maps to show exclusion areas that are off-limits to construction personnel, such as nesting or denning areas for sensitive wildlife species.</p>	No	<p>PGE prepared and provided maps showing exclusion areas associated with Washington ground squirrels, wetlands and cultural areas. The site certificate boundary was also shown on the constraint maps.</p>

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
10.9 (b)	b) Avoiding unnecessary road construction, temporary disturbance, and vehicle use.	No	PGE complied with this condition throughout construction, including during construction of the 34.5 kV backup station service power line.
10.9 (c)	c) Limiting construction work to approved and surveyed areas shown on facility constraints maps.	Yes	Although the site certificate boundary was shown on the constraint maps, work was performed outside of the approved areas.
10.9 (d)	d) Ensuring that all construction personnel are instructed to avoid driving cross-country or taking short-cuts within the site boundary or otherwise disturbing areas outside of the approved and surveyed construction areas.	Yes	Although the site certificate boundary was shown on the constraint maps, work was performed outside of the approved areas.
10.10	The certificate holder shall reduce the risk of injuries to avian species by designing and installing all aboveground transmission line support structures following the most current suggested practices for avian protection on power lines published by the Avian Power Line Interaction Committee. [Final Order IV.H.2.12]	No	The 34.5 kV backup station service power line was installed underground; therefore this condition does not apply.
10.11	Sensitive raptor nest monitoring shall be conducted by qualified biologists in year one, year three, and year five after operations have begun and then at least every five years after that for the life of the project. Results of the monitoring shall be included in an annual sensitive raptor nest monitoring report provided to the Oregon Department of Fish and Wildlife, the U.S. Fish and Wildlife Service, and the Department. This report shall document the nest productivity of sensitive raptor species, including golden eagle ( <i>Aquila chrysaetos</i> ), occurring within one mile of the Carty facility, the Ferruginous Hawk occurring within 0.6 miles, and other sensitive raptor species nests occurring within 1,300 feet of the facility site. [Final Order IV.H.2.13]	No	This requirement applies starting in Year One after operations.

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
10.12	<p>The certificate holder shall use a qualified environmental professional to provide environmental training during construction and operation. Environmental training includes information on the sensitive species present onsite, precautions to avoid injuring or destroying wildlife or sensitive wildlife habitat, exclusion areas, permit requirements, and other environmental issues. The certificate holder shall instruct construction and operations personnel to report any injured or dead wildlife detected while on the site to the appropriate onsite environmental manager.</p> <p>[Final Order IV.H.2.14]</p>	No	<p>PGE developed environmental training which addressed the requirements of this site certificate condition.</p>
10.13	<p>The certificate holder shall not place any structures in Sixmile Canyon and shall avoid new impacts to Sixmile Canyon during construction by using the existing access road for vehicle crossing only during the dry season. Impacts to both the Eightmile Canyon and Sixmile Canyon drainages shall be avoided.</p> <p>[Final Order IV.H.2.15]</p>	No	<p>Construction of the 34.5 kV backup station service power line did not occur in Sixmile Canyon.</p>

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
10.14	<p>The certificate holder shall determine the boundaries of Category 1 Washington ground squirrel (WGS) habitat based on the locations where the squirrels were found to be active in the most recent WGS surveys prior to the beginning of construction in habitat suitable for WGS foraging or burrow establishment ("suitable habitat"). The certificate holder shall use a qualified professional biologist who has experience in detection of WGS to conduct surveys within the site boundary using appropriate search protocols. Except as provided in (a), the biologist shall conduct surveys in the active squirrel season (February 1 to June 30) in 2012 and in the active squirrel seasons at least once every three years until the beginning of construction in suitable habitat. The biologist shall survey all areas of suitable habitat where permanent facility components would be located or where construction disturbance could occur. The certificate holder shall provide written reports of the surveys to the Department and to the Oregon Department of Fish and Wildlife (ODFW) and shall identify the boundaries of Category 1 WGS habitat. During each year in which construction will occur, the boundaries of Category 1 WGS habitat shall be marked by the biologist with high-visibility flagging or markers. The certificate holder shall not begin construction until the identified boundaries of Category 1 WGS habitat have been approved by the Department. Category 1 WGS habitat includes the areas described in (b) and (c) below.</p> <p>[Final Order IV.I.2.1]</p>	No	<p>Washington ground squirrel surveys were conducted in 2012, 2013, and 2015; there was no Washington ground squirrel Category 1 habitat identified in the area of construction for the 34.5 kV backup station service power line. The 2012, 2013, and 2015 reports have been submitted to the Department previously.</p>
10.14 (a)	<p>a) The certificate holder may omit the WGS survey in any year if the certificate holder avoids all permanent and temporary disturbance within suitable habitat until a WGS survey has been completed in the following year and the boundaries of Category 1 habitat have been determined and approved based on that survey.</p>	No	See response to Condition 10.14
10.14 (b)	<p>b) Category 1 WGS habitat includes the area within the perimeter of multiple active WGS burrows plus a 785-foot buffer, excluding areas of habitat types not suitable for WGS foraging or burrow establishment. If the multiple-burrow area was active in a prior survey year, and active burrows are still present, then Category 1 habitat includes the largest extent of the active burrow area ever recorded (in the current or any prior-year survey), plus a 785-foot buffer. If no active burrows are still present, then it is no longer Category 1 habitat for WGS.</p>	No	See response to Condition 10.14
10.14 (c)	<p>c) Category 1 WGS habitat includes the area containing single active burrow detections plus a 785-foot buffer, excluding areas of habitat types not suitable for WGS foraging or burrow establishment. Category 1 habitat does not include single-burrow areas that were found active in a prior survey year but that are not active in the current survey year.</p>	No	See response to Condition 10.14
10.15	<p>The certificate holder shall impose and enforce a construction and operation speed limit of 20 miles per hour throughout the facility site and, during the active squirrel season (February 1 to June 30), a speed limit of 10 miles per hour from one hour before sunset to one hour after sunrise on private roads near known Washington ground squirrel (WGS) colonies. The certificate holder shall ensure that all construction and operations personnel are instructed to watch out for and avoid WGS and other wildlife while driving through the facility site.</p> <p>[Final Order IV.I.2.2]</p>	No	<p>The speed limit was imposed and applied to construction of the 34.5 kV backup station service power line.</p>

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Cond. #	Description	Violation Determination	Reasoning
10.16	The certificate holder shall use perch-preventing structures on Carty Generating Station components in areas within Category 1 habitat for WGS. [Final Order IV.I.2.3]	No	The 34.5 kV backup station service power line was installed underground; therefore this condition does not apply.
10.17	The certificate holder shall provide environmental awareness training for all project personnel and construction contractors before such contractors or personnel enter the site to perform construction related activities. The training program shall discuss Washington ground squirrel issues as well as other environmental issues related to the project, and include handouts with identification information and reporting procedures. Additional training sessions shall be conducted as needed for personnel that start after the beginning of construction. [Final Order IV.I.2.4]	No	See response to Condition 10.12
10.18	The certificate holder shall disc or till a minimum of an 800-ft. buffer within the perimeter of the site boundary in closest proximity to squirrel activity areas. Areas to be tilled shall be reviewed by ODFW and USFWS and shall be informed by the most recent Washington ground squirrel survey data. Tilled areas shall be tilled annually to maintain a soil disturbance regime that is unsuitable for use by Washington ground squirrels. [Final Order IV.I.2.5]	No	The 34.5 kV backup station service power line was not constructed in an area in "closest proximity to squirrel activity areas". Therefore the area did not require discing or tilling or any of the subsequent site certificate requirements associated with discing or tilling.
10.19	The certificate holder shall plant dry land wheat or another cover crop in tilled areas within the site boundary. Crops to be planted shall be selected by the certificate holder in coordination with ODFW and USFWS. [Final Order IV.I.2.6]	No	See response to Condition 10.18
10.20	Should new Washington ground squirrel burrows become established within 785 feet of the site boundary, the certificate holder shall immediately report to ODFW and USFWS. The certificate holder shall coordinate with ODFW and USFWS to establish additional mitigation measures or to obtain an Incidental Take Permit, as appropriate. [Final Order IV.I.2.8]	No	Washington ground squirrel burrows have not become established within 785 feet of the construction area for the 34.5 kV backup station service power line.

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Cond. #	Description	Violation Determination	Reasoning
10.21	The certificate holder shall conduct post-construction surveys on known Washington ground squirrel colonies in the Carty facility area, on land owned by the certificate holder, both within the HMA and in areas where known active burrows were recorded during preconstruction field surveys (2009-2012). The Washington ground squirrel surveys shall be conducted by qualified biologists in year one, year three, and year five after operations have begun, and then at least every five years after that for the life of the project. Surveyors shall record evidence of Washington ground squirrel activity, current land use, and evidence of conditions caused by the project that might increase erosion or result in a decline in vegetation quality and adversely affect a Washington ground squirrel colony. [Final Order IV.I.2.9]	No	This condition applies to surveys to be conducted in Year One following operations.
10.22	The certificate holder shall implement a waste management plan during operation that includes the following measures: (see a - d below) [Final Order IV.N.2.2]	No	Operation of the 34.5 kV backup station service power line does not impact PGEs ability to comply with this site certificate condition.
10.22 (a)	a) Training employees to minimize and recycle solid waste.	No	Operation of the 34.5 kV backup station service power line does not impact PGEs ability to comply with this site certificate condition.
10.22 (b)	b) Recycling paper products, metals, glass and plastics.	No	Operation of the 34.5 kV backup station service power line does not impact PGEs ability to comply with this site certificate condition.
10.22 (c)	c) Collecting non-recyclable waste for transport to a local landfill by a licensed waste hauler.	No	Operation of the 34.5 kV backup station service power line does not impact PGEs ability to comply with this site certificate condition.
10.22 (d)	d) Segregating all hazardous wastes such as used oil, oily rags and oil-absorbent materials, mercury-containing lights and lead-acid and nickel-cadmium batteries for disposal by a licensed firm specializing in the proper recycling or disposal of hazardous wastes.	No	Operation of the 34.5 kV backup station service power line does not impact PGEs ability to comply with this site certificate condition.
10.23	During construction and operation of the Carty Generating Station, the certificate holder shall obtain potable water from the existing well located approximately 750 feet northwest of the Boardman Plant. Water for construction and process water shall be obtained from Carty Reservoir. The certificate holder may use other sources of water for on-site uses subject to prior approval by the Department. [Final Order V.C.2.1]	No	This condition applies to potable water requirements.
10.24	During operation, the certificate holder shall discharge sanitary wastewater generated at the facility to the Boardman Plant sanitary waste facility in compliance with DEQ permit requirements. [Final Order IV.N.2.4]	No	This condition applies to sanitary waste.

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
10.25	Before beginning construction, the certificate holder shall receive approval of the wetlands delineation report by the Department of State Lands and provide an approval letter to the Department. [Final Order V.B.2.1]	No	PGE obtained approval of the wetland delineation report prior to starting construction; there are no wetlands in the area disturbed by construction of the 34.5 kV backup station service power line.
10.26	The certificate holder shall avoid impacts to waters of the state in the following manner: (see a, b, & c below)  [Final Order V.B.2.2]	No	Construction of the 34.5 kV backup station service power line did not result in any impacts to waters of the state.
10.26 (a)	a) The certificate holder shall avoid any disturbance to delineated wetlands.	No	See response to Condition 10.26
10.26 (b)	b) The certificate holder shall construct stream crossings for transmission lines substantially as described in the Final Order on the Application. In particular, the certificate holder shall not remove material from waters of the State or add new fill material to waters of the State such that the total volume of removal and fill exceeds 50 cubic yards for the project as a whole.	No	See response to Condition 10.26
10.26 (c)	c) The certificate holder shall construct support structures for aboveground lines outside of delineated stream channels and shall avoid in-channel impacts.	No	See response to Condition 10.26

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10.27	<p>Before beginning construction, the certificate holder shall provide to the Department a map showing the final design locations of all components of the facility and the areas that would be disturbed during construction and showing the wetlands and stream channels previously surveyed by Ecology and Environment, Inc. as described in the Final Order on the Application.</p> <p>For areas to be disturbed during construction that lie outside of the previously-surveyed areas, the certificate holder shall hire qualified personnel to conduct a pre-construction investigation to determine whether any jurisdictional waters of the State exist in those locations. The certificate holder shall provide a written report on the pre-construction investigation to the Department and the Department of State Lands for approval before beginning construction. The certificate holder shall ensure that construction and operation of the facility will not impact any jurisdictional water identified in the pre-construction investigation in a manner that would require a Removal-Fill Permit.</p> <p>[Final Order V.B.2.3]</p>	Yes	<p>PGE did not include the disturbance associated with construction of the 34.5 KV backup station service power line on the maps provided to the Department prior to starting construction.</p> <p>Note, the area impacted by construction of the 34.5 KV backup station service power line was surveyed for wetlands. A portion of the area was surveyed in 2009 for the Carty Generating Station Project, the entire area was surveyed in 2011 for the Carty Lateral Pipeline Project, and a portion of the area was again surveyed in 2012 for the Carty Lateral Pipeline Project, as shown in Figure A. This area has been surveyed multiple times for several projects and no wetlands were identified.</p> <p>PGE will prepare an updated map showing disturbance areas and provide to the Department in order to resolve this non-compliance issue.</p>
10.28	<p>Before beginning operation of the facility, the certificate holder shall demonstrate that the Oregon Department of Environmental Quality has issued to the certificate holder a Water Pollution Control Facilities Permit substantially in the form of Exhibit 4 of the Final Order on the Application, allowing for wastewater discharge from the Carty Generating Station.</p> <p>[Final Order V.E.2.1]</p>	No	<p>Construction and operation of the 34.5 KV backup station service power line has no impact on the WPCF permit issued to PGE on May 2, 2013.</p>
10.29	<p>The Certificate Holder shall comply with state laws and rules applicable to Water Pollution Control Facilities Permits that are adopted in the future to the extent that such compliance is required under the respective statutes and rules.</p> <p>[Final Order V.E.2.2]</p>	No	<p>This condition applies to WPCF requirements.</p>
10.30	<p>The site certificate holder may not dispose of wastewater into the Boardman settling ponds, vehicle wash water pond or coal yard ponds unless the WPCF is amended to permit such use.</p> <p>[Final Order V.E.2.3]</p>	No	<p>This condition applies to wastewater disposal.</p>

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Cond. #	Description	Violation Determination	Reasoning
10.31	The site certificate holder must meet the compliance dates set out in the WPCF unless alternative compliance dates have been approved in advance in writing by DEQ. Either prior to or not later than 14 calendar days following any lapsed compliance date, the site certificate holder must submit a notice of noncompliance with the established schedule to the Department of Energy and DEQ. Any report of noncompliance must include the cause of noncompliance. [Final Order V.E.2.4]	No	This condition applies to WPCF reporting requirements.
10.32	Prior to constructing or modifying wastewater management treatment and disposal facilities, detailed plans must be submitted to and approved by the Department of Environmental Quality. [Final Order V.E.2.5]	No	This condition applies to wastewater disposal facilities.
10.33	Prior to discharge of wastewater treatment system wastewater to lined evaporation ponds for the Carty Generating Station, the certificate holder shall submit a wastewater characterization to the Department of Environmental Quality for review and approval. [Final Order V.E.2.6]	No	This condition applies to wastewater disposal facilities.
10.34	Unless otherwise approved in writing by the Department of Environmental Quality, the site certificate holder is permitted to manage and dispose only of the following wastes from operation of the Carty Generating Station in lined ponds construction in accordance with the plans that are approved by the Department of Environmental Quality: a) Water treatment wastewater b) Facility sumps and drains wastewater c) Laboratory and sampling wastewater d) Evaporative cooling wastewater e) Equipment cleaning wastewater f) Storm water [Final Order V.E.2.7]	No	Construction and operation of the 34.5 kV backup station service power line does not result in any wastewater.
10.35	Prior to discharge of Carty Generating Station sewage to the lagoons, the certificate holder must: (see a & b below) [Final Order V.E.2.8]	No	This condition applies to sewage discharge.
10.35 (a)	a) submit a work plan to remove vegetation from the Clay-lined cells and either leak test the cells or recondition them; and	No	See response to Condition 10.35

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
10.35 (b)	b) Submit a long-term plan to ensure the integrity of the clay lined cells. The plan may include evaluating system capacity requirements and modifying system capacity accordingly prior to discharge of Carty Generating Station sewage to lagoons.	No	See response to Condition 10.35
10.36	<p>The certificate holder must prepare and implement a Hazardous Materials Management and Monitoring plan approved by the Department. The plan must address the handling of potentially hazardous substances (as defined by ORS 465.200) during construction and operation of the facility, measures to prevent on- and off-site contamination and documentation of plan implementation. The certificate holder must use hazardous materials in a manner that protects public health, safety and the environment and must comply with all applicable local, state and federal environmental laws and regulations. The Hazardous Materials Management and Monitoring Plan shall contain the same information required for a Spill Prevention, Control and Countermeasure Plan (40 CFR 112). Whereas the SPCC Plan addresses spill prevention for oil products, the materials management and monitoring plan shall address hazardous substances. The Plan shall include operating procedures to prevent hazardous substances releases, control measures to contain hazardous substance releases, countermeasures to contain, cleanup, and mitigate hazardous substance releases, and procedures for required inspections and testing. This Plan must be submitted to the Department for review and approval prior to commencement of construction of the Carty Generating Facility.</p> <p>[Final Order IV.G.2.2]</p>	No	Construction and operation of the 34.5 kV backup station service power line does not impact PGE's Hazardous Materials Management and Monitoring plan submitted to the Department for construction or operation.
10.37	<p>If any inspection performed in accordance with the Hazardous Materials Management and Monitoring Plan identifies improper handling or storage of hazardous substances (as defined by ORS 465.200) or improper record keeping procedures, the certificate holder must correct such deficiencies promptly and must report the corrective actions to the Department. If the certificate holder has not corrected such deficiencies within six months after the date of the inspection report, the certificate holder shall submit to the Council an independently prepared estimate of cost of correction. Upon approval of the estimate by the Council, the certificate holder shall increase the amount of the bond or letter of credit required under Condition IV.G.2.9 by the approved amount of the estimate. In no event, however, shall the certificate holder be relieved of its obligation to exercise all due diligence in correcting deficiencies identified in the course of a site inspection.</p> <p>[Final Order IV.G.2.3]</p>	No	This condition applies to the mis-handling of hazardous materials.

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Cond. #	Description	Violation Determination	Reasoning
10.38	<p>The certificate holder shall report any release (as defined by ORS 465.200) of hazardous substances to the Department within 72 hours after the discovery of such release, in addition to any other reporting requirements under applicable law. If the certificate holder has not remedied a release consistent with applicable Oregon Department of Environmental Quality standards within six months after the date of the release, the certificate holder shall submit to the Council an independently prepared estimate of the cost to complete necessary remediation. Upon approval of the estimate by the Council, the certificate holder shall increase the amount of its bond or letter of credit by the approved amount of the estimate. In no event, however, shall the certificate holder be relieved of its obligation to exercise all due diligence in remedying a release of hazardous substances.</p> <p>[Final Order IV.G.2.4]</p> <p>-</p>	No	This condition applies to releases of hazardous substances.
<b>11.0 PROTECTION OF HISTORIC, CULTURAL AND ARCHAEOLOGICAL RESOURCES</b>			
11.1	<p>Before beginning construction, the certificate holder shall label Oregon State Historic Preservation Office (SHPO) archaeological resource site 35MW19 and a 100-foot buffer around site 35MW19 on construction maps and drawings as a "no entry" area. Site 35MW19 and its 100-foot buffer shall be marked with temporary fencing or stakes with rope and/or flagging to prevent inadvertent entry.</p> <p>[Final Order IV.K.2.1]</p>	No	Construction of the 34.5 kV backup station service power line did not occur within archaeological resource site 35MW19 and did not affect PGE's ability to comply with this condition
11.2	<p>Before beginning construction, the certificate holder shall provide to the Department a map showing the final design locations of all components of the facility, the areas that would be temporarily disturbed during construction, the areas that were surveyed in 2009 as described in the Draft Proposed Order, and the location of archaeological resource sit 35MW19 and its 100-foot buffer.</p> <p>[Final Order IV.K.2.2]</p>	Yes	<p>PGE did not include the disturbance associated with construction of the 34.5 kV backup station service power line on the maps provided to the Department prior to starting construction. This area does not fall within the archaeological resource site 35MW-19 or its 100-foot buffer.</p> <p>PGE will prepare an updated map showing disturbance areas and provide to the Department in order to resolve this non-compliance issue.</p>

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
11.3	<p>The certificate holder shall use qualified personnel to conduct field investigation of all areas to be disturbed during construction that lie outside the previously-surveyed areas. The certificate holder shall provide a written report of the field investigation to the Department and to the Oregon State Historic Preservation Office (SHPO). If any potentially significant historic, cultural, or archaeological resource sites are found during the field investigation, the certificate holder shall instruct all construction personnel to avoid the identified sites and shall implement the appropriate measures to protect the sites, including the measures described in Condition 11.5.</p> <p>[Final Order IV.K.2.3]</p>	Yes	<p>Note, the area impacted by construction of the 34.5 kV backup station service power line was surveyed for cultural resources either for the Carty Generating Station or Carty Lateral Pipeline Project. There is a small sliver of area where surveys are not documented in a SHPO submitted and approved report; however, the area was surveyed and confirmed to not have cultural resources (the sliver of area was determined to not be needed for the project the surveys were conducted for and therefore was not included in the written report). These previous cultural surveys are shown in Figure B.</p>
11.4	<p>The certificate holder shall ensure that a qualified archaeologist, as defined in OAR 736-051-0070, instructs construction personnel in the identification of cultural materials and avoidance of accidental damage to identified resource sites. Records of such training shall be maintained at the administration/control building and made available to authorized representatives of the Department upon request.</p> <p>[Final Order IV.K.2.4]</p>	No	<p>This training was conducted for all onsite personnel; including those involved with construction of the 34.5 kV backup station service power line.</p>

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
11.5	<p>The certificate holder shall ensure that construction personnel cease all ground-disturbing activities in the immediate area if any archaeological or cultural resources are found during construction of the facility until a qualified archeologist can evaluate the significance of the find. The certificate holder shall notify the Department and the SHPO of the find. If the SHPO determines that the resource is significant, the certificate holder shall make recommendations to the Council for mitigation, including avoidance, field documentation and data recovery, in consultation with the Department, SHPO, interested tribes and other appropriate parties. The certificate holder shall not restart work in the affected area until the certificate holder has demonstrated to the Department and the SHPO that it has complied with archaeological resource protection regulations.</p> <p>[Final Order IV.K.2.5]</p>	No	<p>There were no inadvertent discoveries during construction of the 34.5 kV backup station service power line.</p>
11.6	<p>The certificate holder shall prepare and implement an Archaeological Monitoring Plan for construction activities to address and mitigate impacts from exposure of unanticipated or previously unidentified cultural resources that may be exposed during construction of the facility. A current copy of the plan must be maintained at the administration/control building and made available to authorized representatives of the Department upon request. The Plan shall include the requirements provided in the Site Certificate. (see a - f below)</p> <p>[Final Order IV.K.2.6]</p>	No	<p>The required plan was completed by Archaeological Investigation Northwest, Inc. and a copy was maintained onsite. Construction of the 34.5 kV line did not require any changes to the prepared plan.</p>
11.6 (a)	<p>a. The certificate holder will be responsible for providing a qualified archaeological monitor for any ground-disturbing project construction activity that occurs within the area between the shovel tests excavated in 2009 and the delineated 100-foot buffer around 35MW19. No ground-disturbance is permitting within the site boundaries or the 100-foot buffer around the archaeological site.</p>	No	<p>Construction of the 34.5 kV backup station service power line did not occur within the area between the shovel tests and the delineated 100-foot buffer; therefore, a monitor was not required.</p>
11.6 (b)	<p>b. A qualified archaeological monitor is a person who meets the "qualified archaeologist" standards defined by ORS 390.235(6)(b) or who is supervised by a "qualified archaeologist." If the latter applies, the supervising qualified archaeologist must vouch for the work of the archaeological monitor and author or co-author the archaeological monitoring report provided at the end of construction monitoring.</p>	No	<p>See response to 11.6(a)</p>

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Cond. #	Description	Violation Determination	Reasoning
11.6 (c)	c. The archaeological monitor will keep a daily log of construction and monitoring activities. If intact archaeological materials are encountered during the monitoring, the archaeological monitor will initiate procedures for inadvertent discovery of archaeological resources, as specified in ORS 358.920.	No	See response to 11.6(a)
11.6 (d)	d. Artifacts will be examined and documented in the field and will not be collected unless authorized under the provisions of a SHPO permit, if one is obtained in the inadvertent discovery of archaeological resources process.	No	There were no inadvertent discoveries during construction of the 34.5 kV backup station service power line.
11.6 (e)	e. If human remains are identified during the course of construction monitoring, the monitor will initiate the procedures for Inadvertent Discovery of Human Remains, as specified in ORS 97.740-97.760.	No	There were no human remains identified during the construction of the 34.5 kV backup station service power line.
11.6 (f)	f. The certificate holder is responsible for providing an archaeological monitoring report to the Department and SHPO after construction work is completed. The report must detail the activities of the archaeological monitor and any inadvertent discoveries encountered, along with actions taken to address them.	No	Construction of the 34.5 kV backup station service power line did not occur within the area between the shovel tests and the delineated 100-foot buffer; therefore, a monitor was not required.
<b>12.0 CARBON DIOXIDE EMISSIONS</b>			
12.1	The net carbon dioxide emissions rate for the base load gas plant must not exceed 0.675 pounds of carbon dioxide per kilowatt-hour of net electric power output, with carbon dioxide emissions and net electric power output measured on a new and clean basis, as defined in OAR 345-001-0010. [Final Order IV.P.2.1]	No	Operation of the 34.5 kV backup station service power line does not produce any carbon dioxide; therefore, the carbon dioxide site certificate conditions do not apply.
12.2	The net carbon dioxide emissions rate for incremental emissions for the facility operating with power augmentation must not exceed 0.675 pounds of carbon dioxide per kilowatt-hour of net electric power output, with carbon dioxide emissions and net electric power output measured on a new and clean basis at the site during the times of year when the facility is intended to operate with power augmentation, subject to modification under Condition 12.12. [Final Order IV.P.2.2]	No	See response to 12.1
12.3	For the purposes of the site certificate, "monetary path payment requirement" means the amount of offset funds determined pursuant to OAR 345-024-0550, -0560, -0590 and -0600 and the amount of the selection and contracting funds that the certificate holder must disperse to The Climate Trust, as the qualified organization, pursuant to OAR 345-024-0710 and the site certificate. The certificate holder shall calculate the monetary path payment requirement using an offset fund rate of \$1.27 per ton of carbon dioxide in 2011 dollars. (see a & b below) [Final Order IV.P.2.3]	No	See response to 12.1
12.3 (a)	a. The certificate holder shall calculate 2011 dollars using the Index described in Condition 15.1.b.	No	See response to 12.1
12.3 (b)	b. The certificate holder shall increase the amount of the letter of credit described in Condition 12.9 by the percentage increase in the Index. The certificate holder shall index the funds from the date of the Council's approval of the site certificate to the date of disbursement of funds to The Climate Trust.	No	See response to 12.1

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Cond. #	Description	Violation Determination	Reasoning
12.4	Before beginning construction of the facility, the certificate holder shall submit to the Department information identifying its final selection of a gas turbine vendor and heat recovery steam generator vendor along with the following information, as appropriate: (see a & b below) [Final Order IV.P.2.4]	No	See response to 12.1
12.4 (a)	a. For the base load gas plant, the certificate holder shall submit written design information, based on its contracts with vendors, sufficient to verify the plant's designed new and clean heat rate (higher heating value) and its net power output at the average annual site condition. The certificate holder shall submit an affidavit certifying the heat rate and capacity.	No	See response to 12.1
12.4 (b)	b. For the base load gas plant designed with power augmentation, the certificate holder shall submit written design information, based on its contracts with vendors, sufficient to verify the facility's designed new and clean heat rate (higher heating value) and its net power output at the site during the times of year when the facility is intended to operate with power augmentation. The certificate holder shall submit an affidavit certifying the heat rate and capacity.	No	See response to 12.1
12.5	Before beginning construction of the facility, the certificate holder shall specify to the Department the annual average hours and the times that it expects to operate with power augmentation. [Final Order IV.P.2.5]	No	See response to 12.1
12.6	To calculate the initial monetary path payment requirement, the certificate holder shall use the contracted design parameters for capacities and heat rates submitted under Condition 12.4 and the annual average hours and times of operation with power augmentation specified under Condition 12.5. [Final Order IV.P.2.6]	No	See response to 12.1
12.7	Before beginning construction of the facility, the certificate holder shall enter into a Memorandum of Understanding (MOU) with The Climate Trust that establishes the disbursement mechanism to transfer selection and contracting funds and offset funds to The Climate Trust. [Final Order IV.P.2.7]	No	See response to 12.1
12.7 (a)	a. The MOU must be substantially in the form of Exhibit 3 to the Final Order on the Application. At the request of the certificate holder, the Council may approve a different form of a letter of credit and concurrent MOU without an amendment of the site certificate.	No	See response to 12.1
12.7 (b)	b. Either the certificate holder or The Climate Trust may submit to the Council for the Council's resolution any dispute between the certificate holder and The Climate Trust concerning the terms of the letter of credit, the MOU or any other issues related to the monetary path payment requirement. The Council's decision shall be binding on all parties.	No	See response to 12.1

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Cond. #	Description	Violation Determination	Reasoning
12.8	The certificate holder shall submit all monetary path payment requirement calculations to the Department for verification in a timely manner before submitting a letter of credit for Council approval, before entering into the MOU with The Climate Trust as required by Condition 12.7, and before making disbursements to The Climate Trust. [Final Order IV.P.2.8]	No	See response to 12.1
12.9	Before beginning construction of the facility, the certificate holder shall submit to The Climate Trust a letter of credit in the amount of the offset funds of the monetary path payment requirement as determined under Condition 12.3. (see a, b & c below) [Final Order IV.P.2.9]	No	See response to 12.1
12.9 (a)	a. The certificate holder shall use a form of letter of credit that is substantially in the form of Appendix B to the MOU described in Condition 12.7. At the request of the certificate holder, the Council may approve a different form of a letter of credit without an amendment of the site certificate.	No	See response to 12.1
12.9 (b)	b. The certificate holder shall use an issuer of the letter of credit approved by the Council.	No	See response to 12.1
12.9 (c)	c. The certificate holder shall maintain the letter of credit in effect until the certificate holder has disbursed the full amount of the offset funds to The Climate Trust. The certificate holder may reduce the amount of the letter of credit commensurate with payments it makes to The Climate Trust. The letter of credit must not be subject to revocation before disbursement of the full amount of the offset funds.	No	See response to 12.1
12.10	For any transfer of the site certificate approved under OAR 345-027-0100: (see a, b & c below) [Final Order IV.P.2.10]	No	See response to 12.1

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
12.10 (a)	a. If The Climate Trust has not yet fully withdrawn the amount of the letter of credit of the current certificate holder at the time of the transfer, the new certificate holder shall submit to The Climate Trust a pro-rated letter of credit, subject to the requirements of Condition 12.9. The new certificate holder shall submit to Council for the Council's approval the identity of the issuer of the letter of credit. The Council may approve a new letter of credit without a site certificate amendment.	No	See response to 12.1
12.10 (b)	b. The new certificate holder shall enter into an MOU with The Climate Trust as described in Condition 12.7 unless the new certificate holder demonstrates to the satisfaction of the Department that there has been a valid assignment of the current certificate holder's MOU to the new certificate holder. The Council may approve a new MOU without a site certificate amendment.	No	See response to 12.1
12.10 (c)	c. For resolution of any dispute between the new certificate holder and The Climate Trust concerning the disbursement mechanism for monetary path payments or any other issues related to the monetary path payment requirement, either party may submit the dispute to the Council as provided in Condition 12.7.b.	No	See response to 12.1
12.11	The certificate holder shall disburse to The Climate Trust offset funds and selection and contracting funds when requested by The Climate Trust in accordance with Conditions 12.13 and 12.14 and the following requirements: (see a, b & c below) [Final Order IV.P.2.11]	No	See response to 12.1
12.11 (a)	a) The certificate holder shall disburse selection and contracting funds to The Climate Trust before beginning construction and as appropriate when additional offset funds are required under Conditions 12.13 and 12.14.	No	See response to 12.1
12.11 (b)	b) Upon notice pursuant to subsection (c), The Climate Trust may request from the issuer of the letter of credit the full amount of all offset funds available or it may request partial payment of offset funds at its sole discretion. Notwithstanding the specific amount of any contract to implement an offset project, The Climate Trust may request up to the full amount of offset funds the certificate holder is required to provide to meet the monetary path payment requirement.	No	See response to 12.1
12.11 (c)	c) The Climate Trust may request disbursement of offset funds pursuant to paragraph (b) by providing notice to the issuer of the letter of credit that The Climate Trust has executed a letter of intent to acquire an offset project. The certificate holder shall require that the issuer of the letter of credit disburse offset funds to The Climate Trust within three business days of a request by The Climate Trust for the offset funds in accordance with the terms of the letter of credit.	No	See response to 12.1
12.12	Within the first 12 months of commercial operation of the facility, the certificate holder shall conduct a 100-hour test at full power without power augmentation (Year One Test-1) and a test at full power with power augmentation (Year One Test-2). Tests performed for purposes of the certificate holder's commercial acceptance of the facility may suffice to satisfy this condition in lieu of testing after beginning commercial operation. (see a - e below) [Final Order IV.P.2.12]	No	See response to 12.1

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
12.12 (a)	a) The certificate holder shall conduct the Year One Test-1 to determine the actual heat rate (Year One Heat Rate-1) and the net electric power output (Year One Capacity-1) on a new and clean basis, without degradation, with the results adjusted for the average annual site condition for temperature, barometric pressure and relative humidity. The certificate holder shall calculate carbon dioxide emissions using a rate of 117 pounds of carbon dioxide per million Btu of natural gas fuel.	No	See response to 12.1
12.12 (b)	b) The certificate holder shall conduct the Year One Test-2 to determine the actual heat rate (Year One Heat Rate-2) and net electric power output (Year One Capacity-2) for the facility operating with power augmentation, without degradation, with the results adjusted for the site condition for temperature, barometric pressure and relative humidity at the site during the times of year when the power augmentation is intended to operate. The certificate holder shall calculate carbon dioxide emissions using a rate of 117 pounds of carbon dioxide per million Btu of natural gas fuel.	No	See response to 12.1
12.12 (c)	c) The certificate holder shall notify the Department at least 60 days before conducting the tests required in subsections (a) and (b) unless the certificate holder and the Department have mutually agreed that less notice will suffice.	No	See response to 12.1
12.12 (d)	d) Before conducting the tests required in subsections (a) and (b), the certificate holder shall, in a timely manner, provide to the Department for its approval a copy of the protocol for conducting the tests. The Department may approve modified parameters for testing power augmentation on a new and clean basis and pursuant to OAR 345-024-0590(1) without a site certificate amendment. The certificate holder shall not conduct the tests until the Department has approved the testing protocols.	No	See response to 12.1
12.12 (e)	e) Within two months after completing the Year One Tests, the certificate holder shall provide to the Council reports of the results of the Year One Tests.	No	See response to 12.1
12.13	Based on the data from the Year One Tests described in Condition 12.12, the certificate holder shall calculate an adjusted monetary path payment. The certificate holder shall submit its calculations to the Department for verification. If the adjusted amount exceeds the amount of the letter of credit provided according to Condition 12.9 before beginning construction, the certificate holder shall fully disburse the excess amount directly to The Climate Trust within 30 days of the Department's verification of the calculations. (see a, b & c below) [Final Order IV.P.2.13]	No	See response to 12.1
12.13 (a)	a. The certificate holder shall include the appropriate calculations of the adjusted monetary path payment with its reports of the results of the Year One Tests required under Condition 12.12.	No	See response to 12.1
12.13 (b)	b. For calculating the adjusted monetary path payment, the certificate holder shall use an offset fund rate of \$1.27 per ton of carbon dioxide (in 2011 dollars) and shall calculate contracting and selecting funds based on 10 percent of the first \$500,000 in offset funds and 4.286 percent of any offset funds in excess of \$500,000 (in 2011 dollars).	No	See response to 12.1
12.13 (c)	c. In no case shall the certificate holder diminish the value of the letter of credit it provided before beginning construction or receive a refund from The Climate Trust based on the calculations made using the Year One Capacities and the Year One Heat Rates.	No	See response to 12.1

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Cond. #	Description	Violation Determination	Reasoning
12.14	The certificate holder shall use the Year One Capacity-2 and Year One Heat Rate-2 that it reports for the facility, as described in Condition 12.12.b, to calculate whether it owes supplemental monetary path payments due to increased hours that it uses power augmentation. [Final Order IV.P.2.14]	No	See response to 12.1
12.14 (a)	(a) Each five years after beginning commercial operation of the facility (five-year reporting period), the certificate holder shall report to the Department the annual average hours the facility operated with power augmentation during that five-year reporting period, as required under OAR 345-024-0590(6). The certificate holder shall submit five-year reports to the Department within 30 days after the anniversary date of beginning commercial operation of the facility.	No	See response to 12.1
12.14 (b)	(b) If the Department determines that the facility exceeded the projected net total carbon dioxide emissions calculated under Conditions 12.4, 12.5 and 12.12, prorated for five years, during any five-year reporting period described in subsection (a), the certificate holder shall offset excess emissions for the specific reporting period according to paragraph (i) and shall offset the estimated future excess emissions according to paragraph (ii), as follows:	No	See response to 12.1
12.14 (b)(i)	i. In determining whether there have been excess carbon dioxide emissions that the certificate holder must offset for a five-year reporting period, the Department shall apply OAR 345-024-0600(4)(a). The certificate holder shall pay for the excess emissions at \$1.27 per ton of carbon dioxide emissions (in 2011 dollars). The Department shall notify the certificate holder and The Climate Trust of the amount of supplemental payment required to offset excess emissions.	No	See response to 12.1
12.14 (b)(ii)	ii. The Department shall calculate estimated future excess emissions for the remaining period of the deemed 30-year life of the facility using the parameters specified in OAR 345-024-0600(4)(b). The certificate holder shall pay for the estimated excess emissions at \$1.27 per ton of carbon dioxide (in 2011 dollars). The Department shall notify the certificate holder of the amount of supplemental payment required to offset future excess emissions.	No	See response to 12.1
12.14 (b)(iii)	iii. The certificate holder shall offset excess emissions identified in paragraphs (i) and (ii) using the monetary path as described in OAR 345-024-0710. The certificate holder shall pay selection and contracting funds of 10 percent of the first \$500,000 in offset funds and 4.286 percent of any offset funds in excess of \$500,000 (in 2010 dollars).	No	See response to 12.1
12.14 (c)	(c) The certificate holder shall disburse the supplemental selection and contracting funds and supplemental offset funds to The Climate Trust within 30 days after notification by the Department of the amount that the certificate holder owes.	No	See response to 12.1
12.15	The certificate holder shall use only pipeline quality natural gas or shall use synthetic gas with a carbon content per million Btu no greater than pipeline-quality natural gas to fuel the combustion turbines for the base-load gas plant and the power augmentation. [Final Order IV.P.2.15]	No	See response to 12.1

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Cond. #	Description	Violation Determination	Reasoning
12.16	After the certificate holder has complied with the conditions relating to the carbon dioxide standard before beginning construction, incremental increases in capacity and heat rate that otherwise fall within the limits specified in OAR 345-027-0050(2) do not require an amendment of the site certificate if the certificate holder complies substantially with Conditions 12.1 through 12.15, except as modified below, and if: (see a & b below) [Final Order IV.P.2.16]	No	See response to 12.1
12.16 (a)	a. The Department or the Council determines, as described in OAR 345-027-0050(5), that the proposed change in the facility does not otherwise require an amendment; and	No	See response to 12.1
12.16 (b)	b. The certificate holder complies with the appropriate carbon dioxide emissions standard and monetary offset rate in effect at the time the Department or the Council makes its determination under this condition.	No	See response to 12.1
12.17	If the certificate holder begins construction of the first generator block but not the second block, the certificate holder shall comply with Conditions 12.1 through 12.15 for the first block. If the certificate holder later begins construction of the second generator block, the certificate holder shall comply with Conditions 12.1 through 12.15 for the second block. [Final Order IV.P.2.17]	No	See response to 12.1
<b>13.0 NOISE CONTROL AND NOISE COMPLAINT RESPONSE</b>			
13.1	To reduce construction noise impacts at nearby residences, the certificate holder shall: (see a, b, & c below) [Final Order V.A.2.1]	No	Each of the requirements listed in the sub-conditions (a)-(c) were in place as the time construction of the 34.5 kV backup station service power line occurred.
13.1 (a)	a) Confine the noisiest operation of heavy construction equipment to the daylight hours.	No	See response to 13.1
13.1 (b)	b) Require contractors to install and maintain exhaust mufflers on all combustion engine-powered equipment; and	No	See response to 13.1
13.1 (c)	c) Establish a complaint response system at the construction manager's office to address noise complaints. Records of noise complaints during construction must be made available to authorized representatives of the Department of energy upon request.	No	See response to 13.1

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<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
13.2	During operation, the certificate holder shall maintain a complaint response system to address noise complaints. The certificate holder shall notify the Department within 15 days of receiving a complaint about noise from the facility. The notification should include the date the complaint was received, the nature of the complaint, the complainant's contact information, the location of the affected property, and any actions taken, or planned to be taken, by the certificate holder to address the complaint. [Final Order V.A.2.2]	No	PGE's noise complaint response system is not affected by the operation of the 34.5 kV backup station service power line.
13.3	Upon written notification from the Department, the certificate holder will monitor and record the actual statistical noise levels during operations to verify that the certificate holder is operating the facility in compliance with the noise control regulations. The monitoring plan must be reviewed and approved by the Department prior to implementation. The cost of such monitoring, if required, will be borne by the certificate holder. [Final Order V.A.2.3]	No	Not applicable at this time.
<b>14.0 MONITORING AND REPORTING REQUIREMENTS - GENERAL</b>			
14.1	The following general monitoring conditions apply: (see a, b, c, & d below) [Final Order VI.2] [Mandatory Condition OAR 345-027-0028]	No	Construction and operation of the 34.5 kV backup station service power line does not change the specific monitoring programs which have been implemented for the project in compliance with sub-conditions 14.1(a)-(d).
14.1 (a)	a. The certificate holder shall consult with affected state agencies, local governments and tribes and shall develop specific monitoring programs for impacts to resources protected by the standards of divisions 22 and 24 of OAR Chapter 345 and resources addressed by applicable statutes, administrative rules and local ordinances. The certificate holder must submit the monitoring programs to the Department of Energy and receive Department approval before beginning construction or, as appropriate, operation of the facility.	No	See response to 14.1
14.1 (b)	b. The certificate holder shall implement the approved monitoring programs described in OAR 345-027-0028(1) and monitoring programs required by permitting agencies and local governments.	No	See response to 14.1
14.1 (c)	c. For each monitoring program described in OAR 345-027-0028(1) and (2), the certificate holder shall have quality assurance measures approved by the Department before beginning construction or, as appropriate, before beginning commercial operation.	No	See response to 14.1
14.1 (d)	d. If the certificate holder becomes aware of a significant environmental change or impact attributable to the facility, the certificate holder shall, as soon as possible, submit a written report to the Department describing the impact on the facility and any affected site certificate conditions.	No	See response to 14.1

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
14.2	The certificate holder shall report according to the following requirements: (see a & b below) [Final Order VI.4] [Mandatory Condition OAR 345-026-0080]	No	Construction and operation of the 34.5 kV backup station service power line did not affect PGE's ability to prepare and submit the required semi-annual and annual reports required by this condition.
14.2 (a)	(a) General reporting obligation for energy facilities under construction or operating: (see i, ii, & iii below)	No	See response to 14.2
14.2 (a)(i)	i. Within six months after beginning construction, and every six months thereafter during construction of the energy facility and related or supporting facilities, the certificate holder shall submit a semiannual construction progress report to the Department of Energy. In each construction progress report, the certificate holder shall describe any significant changes to major milestones for construction. The certificate holder shall include such information related to construction as specified in the site certificate. When the reporting date coincides, the certificate holder may include the construction progress report within the annual report described in OAR 345-026-0080.	No	See response to 14.2
14.2 (a)(ii)	ii. By April 30 of each year after beginning construction, the certificate holder shall submit an annual report to the Department addressing the subjects listed in OAR 345-026-0080. The Council Secretary and the certificate holder may, by mutual agreement, change the reporting date.	No	See response to 14.2
14.2 (a)(iii)	iii. To the extent that information required by OAR 345-026-0080 is contained in reports the certificate holder submits to other state, federal or local agencies, the certificate holder may submit excerpts from such other reports to satisfy this rule. The Council reserves the right to request full copies of such excerpted reports.	No	See response to 14.2
14.2 (b)	(b) In the annual report, the certificate holder shall include the following information for the calendar year preceding the date of the report:	No	See response to 14.2
14.2 (b)(i)	i. Facility Status: An overview of site conditions, the status of facilities under construction, and a summary of the operating experience of facilities that are in operation. In this section of the annual report, the certificate holder shall describe any unusual events, such as earthquakes, extraordinary windstorms, major accidents or the like that occurred during the year and that had a significant adverse impact on the facility.	No	See response to 14.2
14.2 (b)(ii)	ii. Reliability and Efficiency of Power Production: For electric power plants, the plant availability and capacity factors for the reporting year. The certificate holder shall describe any equipment failures or plant breakdowns that had a significant impact on those factors and shall describe any actions taken to prevent the recurrence of such problems.	No	See response to 14.2

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
14.2 (b)(iii)	iii. Fuel Use: For thermal power plants: 1. The efficiency with which the power plant converts fuel into electric energy. If the fuel chargeable to power heat rate was evaluated when the facility was sited, the certificate holder shall calculate efficiency using the same formula and assumptions, but using actual data; and 2. The facility's annual hours of operation by fuel type and, every five years after beginning operation, a summary of the annual hours of operation by fuel type as described in OAR 345-024-0590(5).	No	See response to 14.2
14.2 (b)(iv)	1. The efficiency with which the power plant converts fuel into electric energy. If the fuel chargeable to power heat rate was evaluated when the facility was sited, the certificate holder shall calculate efficiency using the same formula and assumptions, but using actual data; and 2. The facility's annual hours of operation by fuel type and, every five years after beginning operation, a summary of the annual hours of operation by fuel type as described in OAR 345-024-0590(5).	No	See response to 14.2
14.2 (b)(v)	v. Monitoring Report: A list and description of all significant monitoring and mitigation activities performed during the previous year in accordance with site certificate terms and conditions, a summary of the results of those activities and a discussion of any significant changes to any monitoring or mitigation program, including the reason for any such changes.	No	See response to 14.2
14.2 (b)(vi)	vi. Compliance Report: A description of all instances of noncompliance with a site certificate condition. For ease of review, the certificate holder shall, in this section of the report, use numbered subparagraphs corresponding to the applicable sections of the site certificate.	No	See response to 14.2
14.2 (b)(vii)	vii. Facility Modification Report: A summary of changes to the facility that the certificate holder has determined do not require a site certificate amendment in accordance with OAR 345-027-0050.	No	See response to 14.2
14.2 (b)(viii)	viii. Nongenerating Facility Carbon Dioxide Emissions: For nongenerating facilities that emit carbon dioxide, a report of the annual fuel use by fuel type and annual hours of operation of the carbon dioxide emitting equipment as described in OAR 345-024-0630(4).	No	See response to 14.2
14.3	The certificate holder and the Department of Energy shall exchange copies of all correspondence or summaries of correspondence related to compliance with statutes, rules and local ordinances on which the Council determined compliance, except for material withheld from public disclosure under state or federal law or under Council rules. The certificate holder may submit abstracts of reports in place of full reports; however, the certificate holder shall provide full copies of abstracted reports and any summarized correspondence at the request of the Department. [Final Order VI.5] [Mandatory Condition OAR 345-026-0105]	No	There are no correspondence or summaries associated with the construction or operation of the 34.5 KV backup station service power line that should be exchanged with the Department, other than the notifications and reports submitted as part of this violation evaluation.

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

Cond. #	Description	Violation Determination	Reasoning
<b>15.0 RETIREMENT AND FINANCIAL ASSURANCE</b>			
15.1	Before beginning construction of each generating block, the certificate holder shall submit to the State of Oregon through the Council a bond or letter of credit naming the State of Oregon, acting by and through the Council, as beneficiary or payee. The initial bond or letter of credit amount for Block 1 is \$7.884 million (in 3rd Quarter 2011 dollars), to be adjusted to the date of issuance, and adjusted on an annual basis thereafter, as described in sub-paragraph (a) of this condition. The initial bond or letter of credit amount for Block 2 is \$6.670 million (in 3rd Quarter 2011 dollars), to be adjusted to the date of issuance, and adjusted on an annual basis thereafter, as described in sub-paragraph (a) of this condition. [Final Order IV.G.2.9] [Mandatory Condition OAR 345-027-0020(8)]	No	Retirement of the approximately 500 foot long 34.5 kV backup station service power line would have minimal costs well within the contingencies built into the cost estimate for retirement of the entire facility. Therefore, construction and operation of the 34.5 kV backup station service power line has not resulted in violation of any of the retirement and financial assurance conditions listed in Section 15 of the site certificate.
15.1 (a)	a. The certificate holder may adjust the amount of the bond or letter of credit based on the final design configuration of the facility and turbine types selected. Any revision to the restoration costs should be adjusted to the date of issuance as described in (b), and is subject to review and approval by the Department.	No	See response to 15.1
15.1 (b)	b. The certificate holder shall adjust the amount of the bond or letter of credit, using the following calculation and subject to approval by the Department.	No	See response to 15.1
15.1 (b)(i)	i. Adjust the amount of the bond or letter of credit amount (expressed in 3rd Quarter 2011 dollars) to present value, using the U.S. Gross Domestic Product Implicit Price Deflator, Chain-Weight, as published in the Oregon Department of Administrative Services' "Oregon Economic and Revenue Forecast" or by any successor agency (the "Index") and using the 3rd Quarter 2011 index value and the quarterly index value for the date of issuance of the new bond or letter of credit. If at any time the Index is no longer published, the Council shall select a comparable calculation to adjust 3rd Quarter 2011 dollars to present value.	No	See response to 15.1
15.1 (b)(ii)	ii. Round the resulting total to the nearest \$1,000 to determine the financial assurance amount.	No	See response to 15.1
15.1 (c)	c. The certificate holder shall use a form of bond or letter of credit approved by the Council	No	See response to 15.1
15.1 (d)	d. The certificate holder shall use an issuer of the bond or letter of credit approved by the Council.	No	See response to 15.1
15.1 (e)	e. The certificate holder shall describe the status of the bond or letter of credit in the annual report submitted to the Council under Condition VI.4.	No	See response to 15.1

**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

<b>Cond. #</b>	<b>Description</b>	<b>Violation Determination</b>	<b>Reasoning</b>
15.1 (f)	f. The bond or letter of credit shall not be subject to revocation or reduction before retirement of the facility site.	No	See response to 15.1
15.2	If the certificate holder elects to use a bond to meet the requirements of Condition 15.1, the certificate holder shall ensure that the surety is obligated to comply with the requirements of applicable statutes, Council rules and this site certificate when the surety exercises any legal or contractual right it may have to assume construction, operation or retirement of the energy facility. The certificate holder shall also ensure that the surety is obligated to notify the Council that it is exercising such rights and to obtain any Council approvals required by applicable statutes, Council rules and this site certificate before the surety commences any activity to complete construction, operate or retire the energy facility. [Final Order IV.G.2.10]	No	Not applicable at this time because PGE has elected to use a letter of credit to meet the requirements of Condition 15.1.
15.3	The certificate holder shall prevent the development of any conditions on the site that would preclude restoration of the site to a useful, non-hazardous condition to the extent that prevention of such site conditions is within the control of the certificate holder. [Final Order IV.G.2.5] [Mandatory Condition OAR 345-027-0020(7)]	No	Construction and operation of the 34.5 kV backup station service power line did not result in any conditions on the site that would preclude restoration of the site to a useful, non-hazardous condition.
15.4	The certificate holder must retire the facility in accordance with a retirement plan approved by the Council if the certificate holder permanently ceases construction or operation of the facility. The retirement plan must describe the activities necessary to restore the site to a useful, non-hazardous condition, as described in OAR 345-027-0110(5). After Council approval of the plan, the certificate holder must obtain the necessary authorization from the appropriate regulatory agencies to proceed with restoration of the site. [Final Order IV.G.2.6] [Mandatory Condition OAR 345-027-0020(9)]	No	This condition applies to retirement of the facility.
15.5	The certificate holder is obligated to retire the facility upon permanent cessation of construction or operation. If the Council finds that the certificate holder has permanently ceased construction or operation of the facility without retiring the facility according to a final retirement plan approved by the Council, as described in OAR 345-027-0110, the Council shall notify the certificate holder and request that the certificate holder submit a proposed final retirement plan to the Department within a reasonable time not to exceed 90 days. If the certificate holder does not submit a proposed final retirement plan by the specified date, the Council may direct the Department to prepare a proposed final retirement plan for the Council's approval. [Final Order IV.G.2.7] [Mandatory Condition OAR 345-027-0020(16)]	No	This condition applies to retirement of the facility.

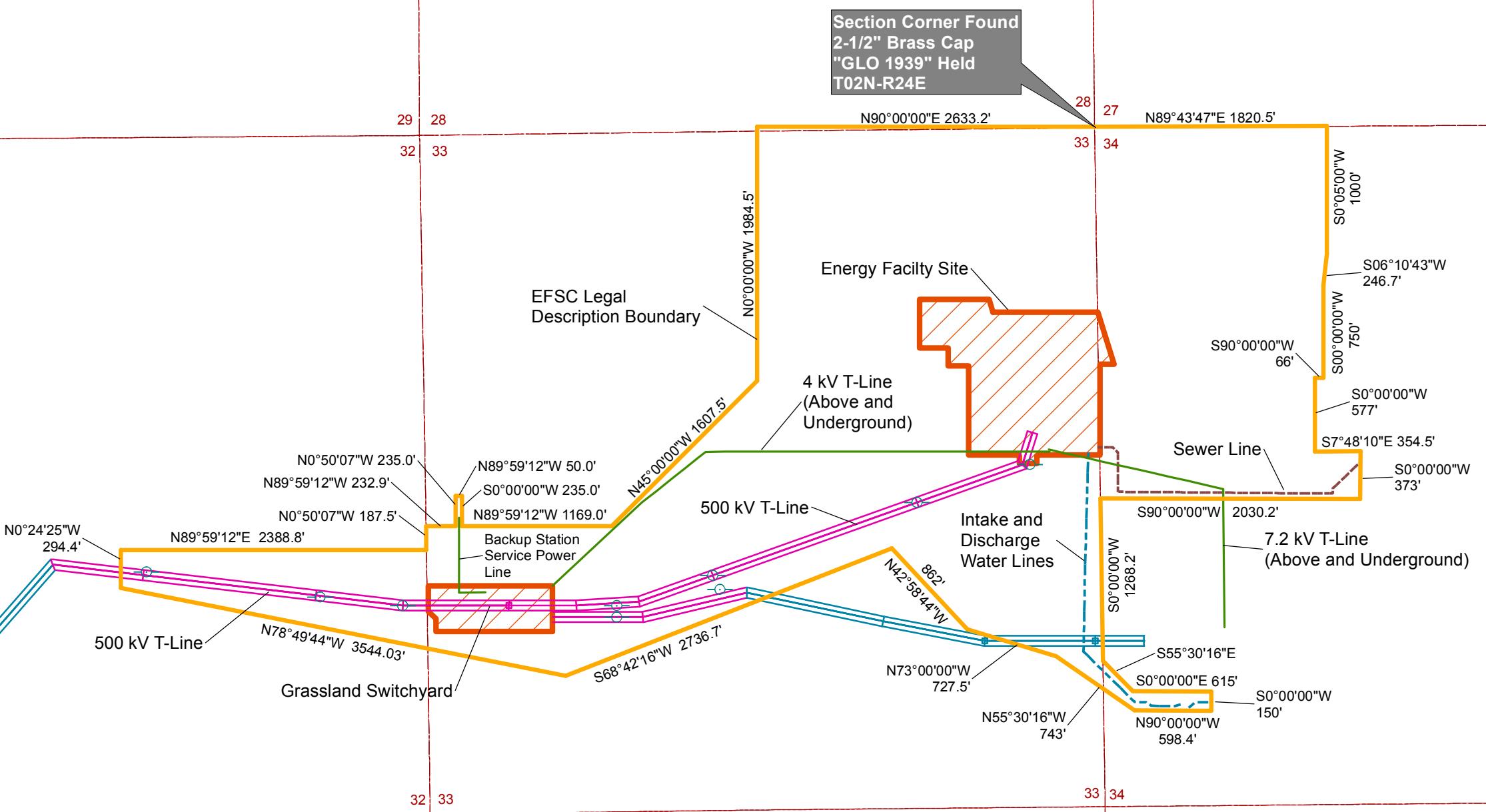
**Attachment 1**  
**Carty Generating Station - Evaluation of Each Site Certificate Condition for Violation of Terms**

Cond. #	Description	Violation Determination	Reasoning
15.6	<p>Upon the Council's approval of a final retirement plan prepared per Condition 15.5, the Council may draw on the bond or letter of credit submitted per the requirements of Condition 15.1 to restore the site to a useful, non-hazardous condition according to the final retirement plan, in addition to any penalties the Council may impose under OAR Chapter 345, Division 29. If the amount of the bond or letter of credit is insufficient to pay the actual cost of retirement, the certificate holder shall pay any additional cost necessary to restore the site to a useful, non-hazardous condition. After completion of site restoration, the Council shall issue an order to terminate the site certificate if the Council finds that the facility has been retired according to the approved final retirement plan.</p> <p>[Final Order IV.G.2.8] [Mandatory Condition OAR 345-027-0020(16)]</p>	No	This condition applies to retirement of the facility.
15.7	<p>Following receipt of the site certificate or an amended site certificate, the certificate holder shall implement a plan that verifies compliance with all site certificate terms and conditions and applicable statutes and rules. As a part of the compliance plan, to verify compliance with the requirement to begin construction by the date specified in the site certificate, the certificate holder shall report promptly to the Department of Energy when construction begins. Construction is defined in OAR 345-001-0010. In reporting the beginning of construction, the certificate holder shall describe all work on the site performed before beginning construction, including work performed before the Council issued the site certificate, and shall state the cost of that work. For the purpose of this exhibit, "work on the site" means any work within a site or corridor, other than surveying, exploration or other activities to define or characterize the site or corridor. The certificate holder shall document the compliance plan and maintain it for inspection by the Department or the Council.</p> <p>[Final Order VI.3] [Mandatory Condition OAR 345-026-0048]</p>	No	<p>Prior to starting construction of the facility PGE prepared a site certificate compliance matrix to use during design, pre-construction, construction, and operation of the facility. The compliance matrix was reviewed extensively with the EPC contractor during design, pre-construction, and construction of the facility.</p> <p>The appropriate notification of the beginning of construction was made to the Department.</p>
<b>16.0 SUCCESSORS AND ASSIGNS</b>			
16.1	To transfer this site certificate or any portion thereof or to assign or dispose of it in any other manner, directly or indirectly, the certificate holder shall comply with OAR 345-027-0100.	No	General condition
<b>17.0 SEVERABILITY AND CONSTRUCTION</b>			
17.1	If any provision of this agreement and certificate is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and conditions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the agreement and certificate did not contain the particular provision held to be invalid.	No	General condition
<b>18.0 GOVERNING LAW AND FORUM</b>			
18.1	This site certificate shall be governed by the laws of the State of Oregon. Any litigation or arbitration arising out of this agreement shall be conducted in an appropriate forum in Oregon.	No	General condition
<b>19.0 EXECUTION</b>			
19.1	This site certificate may be executed in counterparts and will become effective upon signature by the Chair of the Energy Facility Siting Council and the authorized representative of the certificate holder.	No	General condition

Site Location Map

**Map Features**

- EFSC Legal Description Boundary
- New Transmission Towers
- Site Transmission
- New Transmission
- Existing Transmission
- Raw Water Line
- Sewer Line
- Section Boundary



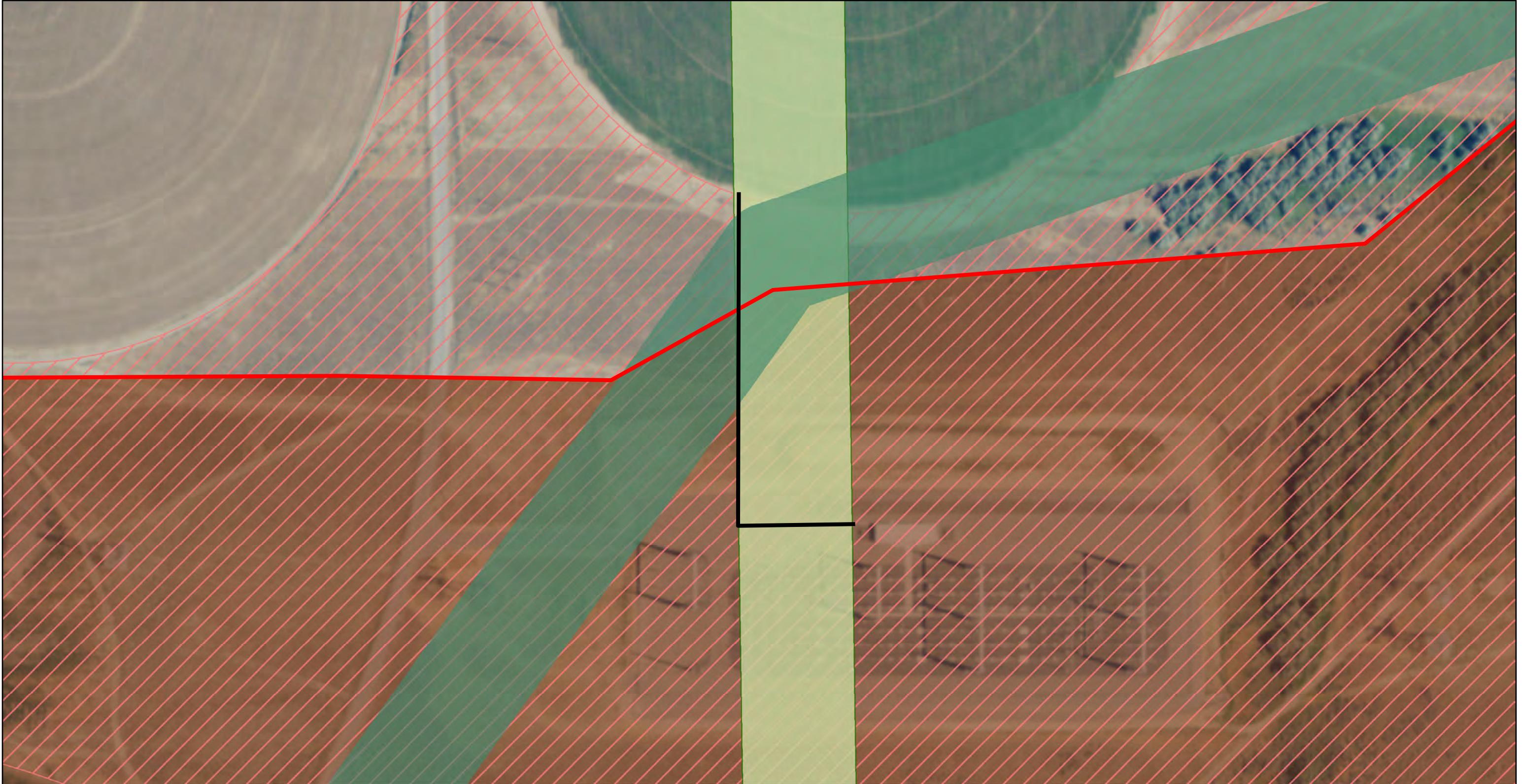
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**Portland General Electric**  
Portland, Oregon

**EFSC Legal Description Boundary Map**  
**Carty Generating Station**

Date: 4/20/2017	Drawn By: J.B. Hoy	Rev.:
Drawing File: J:\Carty\Maps\Carty_EFSC_Legal_042017.mxd		



- 34.5 kV underground power line
- Carty Site Certificate Boundary
- 2009 - Wetland and special status plant species surveys
- 2011 - Wetland and special status plant species surveys
- 2012 - Wetland and special status plant species surveys
- 2016 - Washington Ground Squirrel Surveys



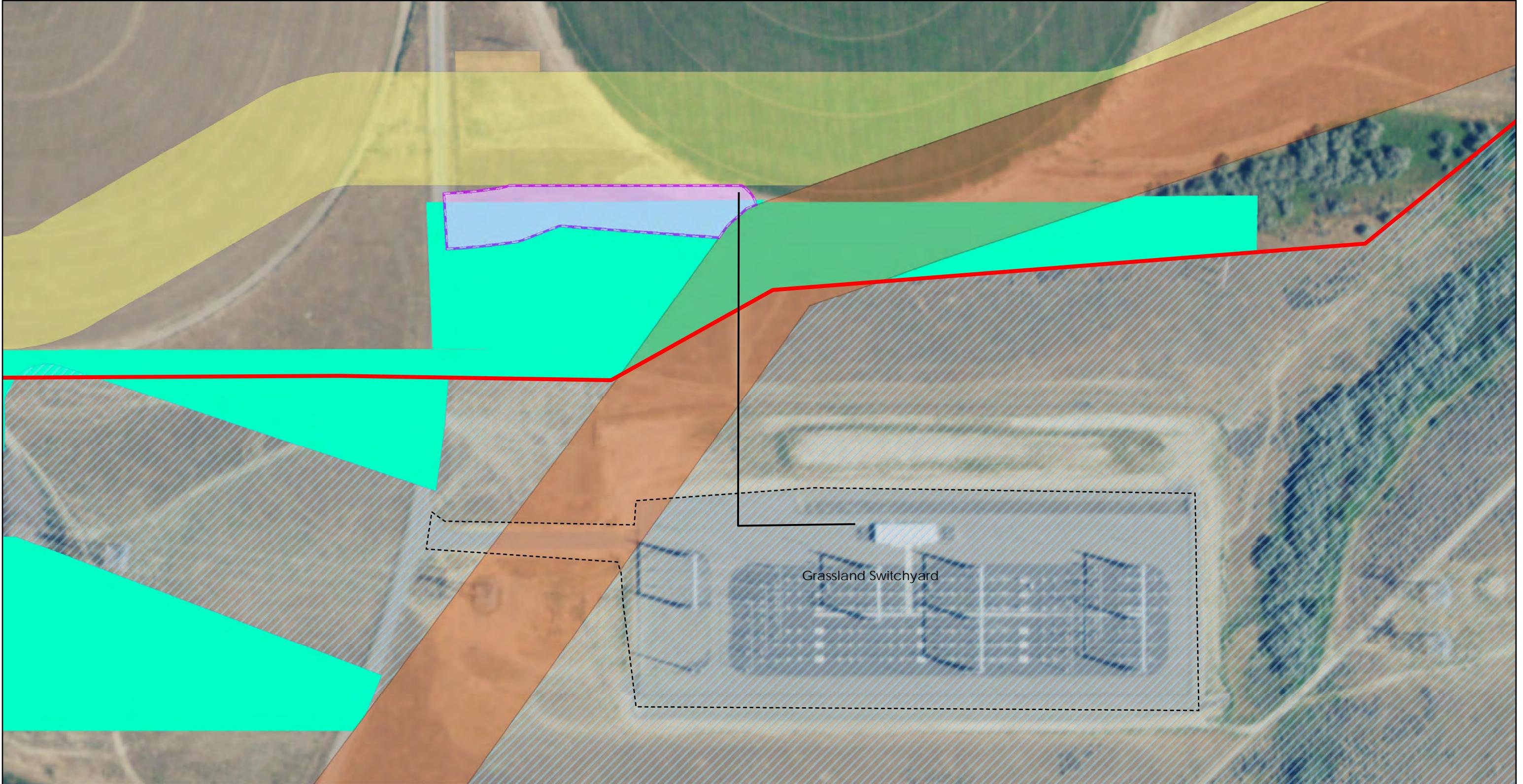
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Credits: Copyright © 2014 Esri  
Esri, USDA Farm Service Agency

Figure A  
Biological and Wetland  
Surveys Map

Portland General Electric Company  
April 2017



- 34.5 kV underground power line
- Carty Site Certificate Boundary
- 2009 - Carty Generating Survey Area
- 2012 - Carty Lateral Survey Area
- 2014 - Carty Lateral Survey Area
- 2015 - Carty Lateral Survey Area
- 2014 - Carty Generating Survey Area

■ 2015 - Area surveyed but was not included in any cultural report

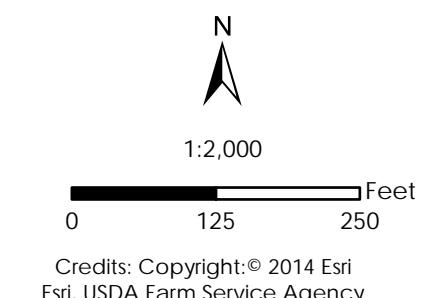


Figure B  
Cultural Survey Areas by Year

Portland General Electric Company  
April 2017

## **Attachment 2**

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Change Request

April 20, 2017

Todd Cornett  
Oregon Department of Energy  
625 Marion Street, NE  
Salem, OR 97301-3742

Re: Proposed Change to Carty Generating Station: Request for Department of Energy Determination Pursuant to OAR 345-027-0050(5)

Dear Mr. Cornett:

As you know, Portland General Electric Company (PGE) is the holder of the Site Certificate for the Carty Generating Station (the “Site Certificate”). As PGE reported to the Department by letter dated March 24, 2017, on March 21, 2017 it was discovered that a portion of the backup station service power line for the Grassland Switchyard was constructed outside the Carty Generating Station (Carty) Site Certificate boundary. Construction of the line occurred in late March 2015. The line extends north from the Grassland Switchyard underground approximately 500 feet where it ties into an existing PGE owned 34.5 kV transmission line associated with the Boardman Plant. PGE estimates that approximately 190 feet of the line extends north outside the Carty site certificate boundary. To install the line a small ditch was dug, the line was installed and the ditch was then backfilled. PGE estimates that the disturbance was 8 to 10 feet wide; since the line is entirely underground the ground disturbance was temporary.

By letter of April 5, 2017, the Department requested that the written report required pursuant to OAR 345-029-0010(3) be submitted by PGE to the Department by April 20, 2017. The Department further requested that PGE’s submittal include “an impact assessment in the form of a change request or a request for amendment.”

Pursuant to OAR 345-027-0050(5), PGE therefore requests a determination by the Oregon Department of Energy that the 34.5 kV backup station service power line serving the Grassland Switchyard from the Boardman Plant, located within a corridor 50 feet wide centered on the installed power line, and representing an expansion of the “site” of the Carty Generating Station of approximately 0.29 acres, does not require an amendment to the Site Certificate.

OAR 345-027-0050(5) provides:

A certificate holder may submit a change request in writing to the Department for a determination whether a proposed change requires a site certificate amendment. In the change request, the certificate holder must describe the proposed change, explain the basis for the certificate holder’s conclusion that an amendment is not required under section (1), and provide the written evaluation described in section (3). The Department shall respond in writing as promptly as possible. The Department may refer its determination to the Council for concurrence, modification or

Mr. Cornett  
April 20, 2017  
Page 2

rejection. At the request of the certificate holder or a Council member, the Department must refer its determination to the Council for concurrence, modification or rejection.

1. Analysis under OAR 345-027-0050(1)

PGE requests a determination that the proposed change does not meet the threshold requirements for an amendment to the Site Certificate under OAR 345-027-0050(1). OAR 345-027-0050(2) is not directly relevant to PGE's request. OAR 345-027-0050(1) provides:

Except as allowed under sections (2) and (6), the certificate holder must submit a request to amend the site certificate to design, construct or operate a facility in a manner different from the description in the site certificate if the proposed change:

- (a) Could result in a significant adverse impact that the Council has not addressed in an earlier order and the impact affects a resource protected by Council standards;
- (b) Could impair the certificate holder's ability to comply with a site certificate condition; or
- (c) Could require a new condition or a change to a condition in the site certificate.

A. The proposed change would not result in a significant adverse impact that the Council has not addressed in an earlier order.

The only relevant "earlier order" by the Council is the Final Order of June 29, 2012, approving the Site Certificate.

Construction of the 34.5 kV backup station power service line created a temporary disturbance of approximately 5,000 square feet (0.11 acres). As discussed in the "compliance matrix" (Attachment 1 to PGE's 30 Day Written Report), the work was performed in compliance with the soil protection conditions in Section 9.0 of the Site Certificate, including compliance with the Erosion and Sediment Control Plan prepared for the NPDES 1200-C permit for Unit 1 construction and compliance with requirements for revegetation of the disturbed area.

As also discussed in the compliance matrix, the area in which the 34.5 kV backup station service power line was constructed was included in prior habitat surveys, wetland surveys and cultural resource surveys for the Carty Generating Station and/or the Carty lateral natural gas pipeline. Based on those surveys, the line was not constructed in Category 1, 2 or 3 habitat (Conditions 10.7(a), 10.7(b)), in the vicinity of raptor nests (Conditions 10.7(d), 10.8), in wetlands (Conditions 10.25, 10.26), or within a known archaeological site (Condition 11.1).

The 34.5 kV backup station service power line was constructed primarily in Category 4 habitat with a small portion occurring in Category 6 habitat (along the edge of a crop circle); assuming the entire disturbance occurred in Category 4 habitat the mitigation requirement for temporary disturbance would result in a mitigation acreage of 0.06 acres. The amount of mitigation required, in consultation with ODFW per Condition 10.3 was previously determined to be 72.7 acres; however, when PGE set up the mitigation area a total of 78 acres were included in the mitigation area; therefore, there is enough extra mitigation area already set aside to account for the additional disturbance area.

Section 2 of this Change Request includes the evaluation required by OAR 345-027-0050(3) with regard to whether the proposed change in the design, construction and operation of the facility would comply with applicable Council standards. That evaluation supports the conclusion that the construction of the 34.5 kV backup station service power line did not and will not result in a significant adverse impact that the Council has not addressed in an earlier order.

B. The proposed change would not impair the certificate holder's ability to comply with any site certificate condition.

PGE has provided a compliance matrix, analyzing the extent to which construction of the 34.5 kV backup station service power line violated conditions of the Site Certificate. Although several conditions were violated, the construction of the line does not impair PGE's ability to comply with those or any other conditions going forward. In particular, the backup station service power line was not constructed in an area in which construction or other disturbance was prohibited due to known habitat, natural resources (wetlands), Protected Areas, or archaeological or cultural resources.

As a below-ground element of the overall facility, the transmission line will not contribute any noise or other emissions. For the reasons discussed in the compliance matrix with regard to Conditions 6.5 and 7.9 of the Site Certificate, the line will comply with requirements regarding electrical safety.

C. The proposed change would not require a new condition or a change to a condition of the site certificate.

As described above and in the compliance matrix, the Site Certificate already contains adequate conditions to address any impacts (in particular, soil impacts, restoration of temporary disturbance areas, and habitat mitigation) associated with the construction of the 34.5 kV backup station service power line.

Mr. Cornett  
April 20, 2017  
Page 4

2. Evaluation required by OAR 345-027-0050(3)

OAR 345-027-0050(3) requires that if the certificate holder concludes that a change does not require a site certificate amendment, “the certificate holder shall, nevertheless, complete an investigation sufficient to demonstrate that the proposed change in the design, construction and operation of the facility would comply with applicable Council standards.”

This section reviews the proposed change under the applicable Council standards.<sup>1</sup>

A. OAR 345-022-0000 (General Standard of Review)

OAR 345-022-0000 provides:

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

*(a) The facility complies with the requirements of the Oregon Energy Facility Siting statutes, ORS 469.300 to 469.570 and 469.590 to 469.619, and the standards adopted by the Council pursuant to 469.501 or the overall public benefits of the facility outweigh any adverse effects on a resource or interest protected by the applicable standards the facility does not meet as described in section (2).*

Response: This evaluation demonstrates that the 34.5 kV line complies with applicable standards adopted by the Council; PGE is not requesting a “public benefit” determination under OAR 345-022-0000(2).

B. OAR 345-022-0010 (Organizational Expertise)

OAR 345-022-0010 provides:

*(1) To issue a site certificate, the Council must find that the applicant has the organizational expertise to construct, operate and retire the proposed facility in compliance with Council standards and conditions of the site certificate. To conclude that the applicant has this expertise, the Council must find that the applicant has demonstrated the ability to design, construct and*

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<sup>1</sup> The evaluation does not address the Council’s carbon dioxide standards (OAR 345-024-0550 through 0600) because the 34.5 kV backup station service power line does not increase the generating capacity of the Carty Generating Station or otherwise affect carbon dioxide emissions. Similarly, this evaluation does not address compliance with DEQ noise standards, because the line is located underground and is not anticipated to create any audible sound.

*operate the proposed facility in compliance with site certificate conditions and in a manner that protects public health and safety and has demonstrated the ability to restore the site to a useful, non-hazardous condition. The Council may consider the applicant's experience, the applicant's access to technical expertise and the applicant's past performance in constructing, operating and retiring other facilities, including, but not limited to, the number and severity of regulatory citations issued to the applicant.*

Response: In Section IV.B of its Final Order, the Council explained why PGE satisfies the Organization Expertise standard with respect to the Carty Generating Station as a whole. The 34.5 kV backup station service power line is a relatively minor component of the overall project, and does not alter those findings.

PGE's 30 Day Written Report, to which this Change Request is Attachment 2, explains the measures PGE is taking to ensure that construction outside of the approved "site" will not occur again.

C. OAR 345-022-0020 (Structural Standard)

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

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

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

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

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

Response: As discussed in the compliance matrix with regard to Conditions 6.5 through 6.11 of the Site Certificate, construction of the backup station service power line complied with the applicable codes and requirements with respect to seismic and non-seismic hazards.

D. OAR 345-022-0022 (Soil Protection)

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

Response: As discussed in the compliance matrix with regard to the conditions in Section 9.0 of the Site Certificate, PGE constructed the 34.5 kV backup station service power line in compliance with the requirements of the NPDES 1200-C permit for Unit 1 construction and in compliance with the requirements of the Site Certificate for revegetation of disturbed area. The construction of the line did not involve potential for chemical spills or effluent, and is unrelated to salt deposition from cooling towers.

E. OAR 345-022-0030 (Land Use)

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

Response: PGE's Application for Site Certificate for the Carty Generating Station requested that the Council make the findings of compliance with this standard.

The 34.5 kV backup station service power line provides backup power from the Boardman Plant to the Grassland Switchyard. The backup station service power line and the Grassland Switchyard are located on land zoned by Morrow County for exclusive farm use (EFU). The Council's Final Order, Section IV.E.1, approved an "exception" to Statewide Planning Goal 3 to allow the Carty Generating Station (including the Grassland Switchyard) to permanently occupy up to approximately 66 acres of EFU land at full buildout. The backup station service power line does not increase the area of permanent impact or disturbance to EFU land associated with the Carty Generating Station.

Moreover, as a transmission line providing backup station service from the Boardman Plant to the Grassland Switchyard, the 34.5 kV line would be a “utility facility necessary for public service” under ORS 215.275,<sup>2</sup> and therefore not subject to the acreage limitations applicable to generating facilities. The 34.5 kV line meets the requirements of ORS 215.275 because there is no way to provide backup station service power to the Grassland Switchyard, which is located on EFU land, without crossing EFU land. The 34.5 kV backup station service power line is constructed underground and along a direct route to minimize the impact to EFU land.

The backup station service power line is not subject to the setback requirements of the Morrow County Zoning Ordinance (MCZO). Under the MCZO 1.050, all setbacks are defined as being measured from the respective lot line “to the nearest point of a building.” That same section defines “building” as: “A structure built for the support, shelter, or enclosure of persons, animals, chattels, or property of any kind.” Under that definition, the backup power line would not be a “building” subject to setbacks.

PGE will consult with Morrow County to determine the appropriate measures necessary to comply with Condition 4.6 with respect to local land use permit(s).

F. OAR 345-022-0040 (Protected Areas)

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

Response: The Council’s Final Order discussed compliance with the Protected Areas standard in Section IV.F. As constructed, the 34.5 kV backup station service power line is not within any Protected Area. The line will not result in a “significant adverse impact” to any Protected Area because the line is constructed below ground and cannot impact a Protected Area visually or by creating noise or emissions.

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<sup>2</sup> The 34.5 kV line would not be an “associated transmission line” subject to ORS 215.274, because ORS 469.300(3) defines “associated transmission line” as “new transmission lines constructed to connect an energy facility to the first point of junction of such transmission line or lines with either a power distribution system or an interconnected primary transmission system or both or to the Northwest Power Grid.” The 34.5 kV line does not connect the Boardman Plant to the grid; it simply provides backup station service power for the Grassland Switchyard.

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G. OAR 345-022-0050 (Retirement and Financial Assurance)

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

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

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

Response: PGE is using a letter of credit to meet the Financial Assurance requirement under this Council standard. As discussed with respect to Condition 15.1 of the Site Certificate in the compliance matrix, retirement of the approximately 500 foot long 34.5 kV backup station service power line would have minimal costs well within the contingencies built into the cost estimate for retirement of the entire facility. Therefore, construction and operation of the 34.5 kV backup station service power line would comply with the Retirement and Financial Assurance standard.

H. OAR 345-022-0060 (Fish and Wildlife Habitat)

*To issue a site certificate, the Council must find that the design, construction and operation of the facility, taking into account mitigation, are consistent with:*

*(1) The general fish and wildlife habitat mitigation goals and standards of OAR 635-415-0025(1) through (6) in effect as of February 24, 2017, and*

*(2) For energy facilities that impact sage-grouse habitat, the sage-grouse specific habitat mitigation requirements of the Greater Sage-Grouse Conservation Strategy for Oregon at OAR 635-415-0025(7) and OAR 635-140-0000 through -0025 in effect as of February 24, 2017.*

Response: The Carty Generating Station is not located in sage grouse habitat; therefore, only the general fish and wildlife habitat mitigation goals and standards of OAR 635-415-0025(1) through (6) apply.

As discussed in the compliance matrix in response to Conditions 10.7(d) and 10.8, the 34.5 kV backup station service power line was not constructed in the vicinity of raptor nests based on surveys conducted by PGE in 2014 and 2015.

The 34.5 kV backup station service power line was constructed primarily in Category 4 habitat with a small portion occurring in Category 6 habitat (along the edge of a crop circle); assuming the entire disturbance occurred in Category 4 habitat the mitigation requirement for temporary disturbance of 0.11 acres would result in a mitigation acreage of 0.06 acres. The amount of mitigation required, in consultation with ODFW per Condition 10.3 was previously determined to be 72.7 acres; however, when PGE set up the mitigation area a total of 78 acres were set included in the mitigation area; therefore, there is enough extra mitigation area already set aside to account for the additional disturbance area.

I. OAR 345-022-0070 (Threatened and Endangered Species)

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

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

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

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

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

Response: As indicated in Section IV.I.1.a. of the Final Order, no special status plant species were identified during surveys conducted for the Application for Site Certificate. The only wildlife species of concern identified in the Final Order is the Washington Ground Squirrel (WGS). As indicated in the compliance matrix in response to Conditions 10.7 and 10.14, the 34.5 kV backup station service power line was not constructed in Category 1 WGS habitat.

J. OAR 345-022-0080 (Scenic Resources)

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

Response: The 34.5 kV backup station service power line is below ground. Therefore, it will not result in significant adverse impact to scenic resources and values identified as significant in applicable land use or land management plans.

K. OAR 345-022-0090 (Historic, Cultural and Archaeological Resources)

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

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

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

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

Response: As indicated in the compliance matrix in response to Condition 11.3, the 34.5 kV backup station service power line was not located on or through any previously known or surveyed historic, cultural or archaeological resources. No such resources were encountered during construction of the line.

L. OAR 345-022-0100 (Recreation)

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

*(a) Any special designation or management of the location;*

- (b) *The degree of demand;*
- (c) *Outstanding or unusual qualities;*
- (d) *Availability or rareness;*
- (e) *Irreplaceability or irretrievability of the opportunity.*

Response: Important recreational resources were identified in Section IV.L.1.a. of the Council's Final Order; the Council found that "none of the recreational facilities identified ... would be physically impacted by construction of the Carty facility." As constructed, the 34.5 kV backup station service power line is located adjacent to other approved elements of the Carty Generating Station and, moreover, is below ground. Therefore, the line would not result in a significant adverse impact to important recreational opportunities.

M. OAR 345-022-0110 (Public Services)

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

Response: The 34.5 kV backup station service power line supports operation of the approved Grassland Switchyard; it does not create any incremental demand for public services.

N. OAR 345-022-0120 (Waste Minimization)

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

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

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

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Response: As discussed in the compliance matrix with respect to Condition 6.3 of the Site Certificate, construction of the 34.5 backup station service power line did not affect PGE's ability to implement its waste management plan during construction of Unit 1. As an underground facility that generates no waste, the operation of the line will not affect PGE's ability to implement its waste management plan during facility operation in accordance with Condition 10.22 of the Site Certificate.

O. OAR 345-024-0090 (Siting Standards for Transmission Lines)

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

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

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

Response: For the reasons discussed in the compliance matrix with regard to Conditions 6.5 and 7.9 of the Site Certificate, the 34.5 kV backup station service power line will comply with requirements regarding electrical safety.

P. Removal-Fill Law

The Oregon Removal-Fill Law (ORS 196.795 through 196.990) and regulations (OAR 141-085-0500 through 141-085-0785) adopted by the Oregon Department of State Lands (DSL) require a permit if 50 cubic yards or more of material is removed, filled or altered within any "waters of the state."

Response: As indicated in the compliance matrix in response to Conditions 10.25 and 10.26 of the Site Certificate, wetlands have been delineated in the area temporarily disturbed by construction of the 34.5 kV backup station service power line, and construction did not result in any impacts to waters of the state.

Conclusion

For the reasons set forth in this letter, we request the Department's determination the 34.5 kV backup station service power line serving the Grassland Switchyard from the Boardman Plant, located within a corridor 50 feet wide centered on the installed power line, and representing an expansion of the "site" of the Carty Generating Station of approximately 0.29 acres, does not require an amendment to the Site Certificate.

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Very truly yours,



Lenna Cope  
Portland General Electric Company



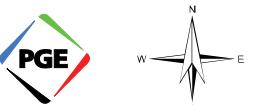
Site Location Map



**Map Features**

- Carty Site Boundary (Yellow Box)
- Addition For Backup Station Service Power Line (Purple Hatched Box)
- Approx. .29 Acres

0 75 150  
Feet



**Portland General Electric**  
Portland, Oregon

**Site Certificate Boundary  
with Backup Station  
Service Power Line  
Carty Generating Station**

Date: 4/19/2017	Drawn By: J.B. Hoy	Rev:
Drawing File: J:\Carty\Maps\Carty_SCB_Addition_041917.mxd		



# Oregon

Kate Brown, Governor



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June 14, 2017

Lenna Cope

Environmental Engineer, Environmental Compliance & Licensing

Portland General Electric

121 SW Salmon Street

Portland, Oregon 97204

Sent via email: [Lenna.Cope@pgn.com](mailto:Lenna.Cope@pgn.com)

Re: 30 Day Written Report and Request for Determination Pursuant to OAR 345-027-0050(5) for Change to Carty Generating Station

Dear Ms. Cope:

Consistent with site certificate condition IV.B.2.7, the Oregon Department of Energy (Department or ODOE) received Portland General Electric's (PGE) 72 hour notification (Notification) on March 24, 2017 reporting conditions or circumstances that may violate the terms or conditions of the Carty Generating Station site certificate.

PGE summarizes its Notification as follows:

*To summarize the 72-hour Notification, the backup station service power line for Grassland Switchyard extends north from the Grassland Switchyard underground approximately 500 feet where it ties into an existing PGE-owned 34.5 kilovolt (kV) transmission line (built as part of the Boardman Power Plant); it is estimated approximately 190 feet of the line extends north outside the Site Certificate boundary... To install the line a small ditch was dug, the line was installed and the ditch was then backfilled. PGE estimates that the disturbance was 8 to 10 feet wide; since the line is entirely underground the ground disturbance was temporary and vegetation has been reestablished. Construction occurred in March 2015.*

The backup station service power line was not included in PGE's application for site certificate for the Carty Generating Station and was therefore not evaluated by the Energy Facility Siting Council (EFSC or Council) in the Final Order dated June 29, 2012. In addition, a portion of the service line was constructed outside of the facility site boundary.

The Department's April 5, 2017 response letter informed PGE of PGE's responsibility to submit the written report ("30 day written report") required pursuant to OAR 345-029-0010(3). PGE submitted the 30 day written report to the Department on April 20, 2017. In response to the Department's direction to PGE to provide an impact assessment in the form of a change request or request for amendment in its 30 day written report, PGE submitted a change request as an attachment. In addition, PGE provided additional information on June 2, 2017 (Attachment 1) in response to the Department's May 25, 2017 request for more information. This letter responds to the 30 day written

report and provides ODOE's determination under OAR 345-027-0050(5) whether the proposed change requires an amendment to the Carty Generating Station site certificate.

### **30 Day Written Report**

The Department has determined that PGE's 30 day written report meets the requirements of OAR 345-029-0010(3). The Department acknowledges the corrective actions PGE represents that it intends to implement to minimize the potential for facility components to be constructed or operated inconsistently with the description in the application for site certificate, Final Order, and site certificate and to ensure that all components are constructed within the site boundary and in the approximate location proposed and approved. Those corrective actions are listed in subsection (d) of the 30 day written report and require PGE to, in part, include this event in the lessons learned document for the design and construction of Carty Generating Station Unit 1; revise the general specification file for future new generating plant projects to require the inclusion of additional specified information; and review PGE Power Supply Engineering Services project management procedures for enhancements to prevent recurrence of a similar issue in future projects. PGE shall provide evidence to the Department no later than **August 11, 2017** that it has implemented those corrective actions.

In addition to those corrective actions, PGE committed to the following actions to address those site certificate conditions violated by construction and operation of the service line:

- Condition 7.1(b): Provide the landowner (Threemile Canyon Farms) a map of the underground line and advise the landowner of possible health risks from electric and magnetic fields.
- Condition 10.7(b): Provide to the Department a map showing the final design locations of all components of the facility, including the backup station service power line, and the areas disturbed during construction and identifying the survey areas for all plant and wildlife surveys.
- Condition 10.27: Provide to the Department a map showing the final design locations of all components of the facility, including the backup station service power line, and the areas disturbed during construction and showing the locations of wetlands and stream channels.
- Condition 11.2: Provide to the Department a map showing the final design locations of all components of the facility, including the backup station service power line, and the areas temporarily disturbed during construction. This map should identify the survey areas for all historical, cultural, and archaeological resources surveys, as well as the location of archaeological resource site 35MW19 and its 100-foot buffer. This map shall be submitted in accordance with the Department's procedures for transmitting confidential information.

In addition, to maintain compliance with Condition 8.8, PGE must provide the Boardman Rural Fire Protection District with an updated site plan showing the location of all facility structures, including the backup station service power line. Furthermore, to comply with Condition 4.6, PGE must submit an updated site plan to Morrow County with a cover letter explaining the reason for the updated

plan. ODOE notes that Attachment 1 includes a copy of PGE's notification to Threemile Canyon Farms to comply with Condition 7.1(b); therefore, that requirement has been met.

PGE shall provide the above listed information to the Department, including copies of information provided to the Boardman Rural Fire Protection District and Morrow County, no later than **July 28, 2017**, unless the Department and PGE agree to a different date.

Based upon PGE's self-reporting, the corrective actions PGE has committed to implementing, and the analysis provided in PGE's change request, the Department has determined that it will not issue a Notice of Violation in response to PGE's Notification and 30 day written report.

### **Change Request**

Under OAR 345-027-0050(5), a certificate holder may ask the Department to determine whether a proposed change requires a site certificate amendment by submitting a change request describing the proposed change, explaining the basis for the certificate holder's conclusion that an amendment is not required under OAR 345-027-0050(1), and providing the written evaluation described in OAR 345-027-0050(3). The Department considers PGE to have met their obligations under the requirements of OAR 345-027-0050(5) by providing the information contained in their April 20, 2017 change request.

OAR 345-027-0050(1) contains the criteria used by ODOE and EFSC to determine when a proposed modification requires a site certificate amendment. PGE's April 20, 2017 document contained an assessment of the criteria in the rule.

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

- a) Could result in a significant adverse impact that the Council has not addressed in an earlier order and the impact affects a resource protected by Council standards;
- b) Could impair the certificate holder's ability to comply with a site certificate condition; or
- c) Could require a new condition or a change to a condition in the site certificate

### *OAR 345-027-0050(1)(a)*

As required by OAR 345-027-0050(1)(a), PGE evaluated the impacts of the backup station service power line and concluded it did not result in a significant adverse impact that the Council has not addressed in an earlier order to a resource protected by Council standards. For example, PGE stated that the service line is mostly underground and as such does not result in substantial visual changes, noise, or air emissions that could cause significant adverse impacts to protected areas, recreation, or scenic resources. The Department agrees with PGE's analysis and conclusions, and, based on the type of development, specifically discusses herein the evaluation of impacts to soil, land use (farmland), natural resources, and cultural resources.

PGE stated that construction of the backup station service power line was conducted in accordance with Condition 9.1, which requires that the facility be constructed in compliance with the National Pollutant Discharge Elimination System Stormwater Discharge General Permit #1200-C, including the Erosion and Sediment Control Plan. PGE confirmed that vegetation has been restored in the area disturbed by construction of the backup station service power line. The Department concludes that construction of the backup station service power line did not result in a significant adverse impact to soils that the Council has not addressed in an earlier order.

ODOE notes that the backup station service power line connects to the existing 34.5 kV transmission line at the southern edge of a crop circle (center pivot agriculture). Attachment 1 includes a copy of correspondence with the property owner, Threemile Canyon Farms, demonstrating that construction and operation of the service line has not led to impacts to agricultural operations. The service line was constructed on land zoned exclusive farm use. PGE notes that the service line is a “utility facility necessary for public service” under ORS 215.275 because the service line is locationally dependent [ORS 215.275(2)(b)] given that it must cross land zoned EFU in order to achieve a reasonably direct route between the Grassland Switchyard and the existing 34.5 kV transmission line. PGE states that other alternatives would have required construction of an approximately one-mile line from Grassland Switchyard to the Boardman Coal Plant buildings (which would also have crossed EFU land), and that therefore the route selected was the most direct route to provide backup power to Grassland Switchyard. Based upon the information provided by PGE, the service line also meets the criteria for “utility facility necessary for public service” under ORS 215.275(2)(d) because the selected route allowed PGE to use an existing right of way.

In the Final Order dated June 29, 2012, the Council found that the 500 kV transmission line met the standards provided by ORS 215.275. While the service line itself was not assessed in the Final Order against the provisions of ORS 215.275, given that such an assessment was performed for the 500 kV transmission line, impacts to farmland are temporary, and no adverse impacts to agricultural operations have occurred, the Department concludes that construction of the service line does not result in a significant adverse impact to land use (specifically, farmland) that the Council has not addressed in an earlier order.

PGE states that the area impacted by construction of the 34.5 kV backup station service power line was surveyed for special status plant species, wildlife (raptor nests and Washington ground squirrel and other special status animal species) and habitat prior to construction. PGE provided Figure A to their change request to show biological and wetland surveys coverage, and ODOE requested additional information related to special status animal species surveys. Based upon the additional information provided in Attachment 1 and the information contained in Exhibit P of the application for site certificate, the 2009 and 2016 Washington ground squirrel surveys covering the area transected by the backup station service power line included other special status animal species as incidental observations. PGE states that none of the surveys identified any wetlands or protected plant or wildlife species, including Washington ground squirrels, in the area impacted by construction of the 34.5 kV backup station service power line.

The area impacted by the backup station service power line is primarily considered Habitat Category 4; a small portion along the edge of a crop circle is considered Habitat Category 6. PGE conservatively assumed in its change request that the total impact occurred in Category 4 habitat. As stated in Section IV.H.1.c.iii of the Final Order, PGE proposed to mitigate for temporary impacts to Category 4 habitat at a 0.5:1 ratio and for permanent impacts to Category 4 habitat at a 1:1 ratio. The 0.11 acres

disturbed during construction of the service line would therefore result in a mitigation acreage of 0.06 acres for temporary impacts or 0.11 acres for permanent impacts. PGE states that the mitigation area established based upon consultation with ODFW in accordance with site certificate Condition 10.3 was larger than the amount of mitigation required (78 acres versus 72.7 acres), and that therefore the existing mitigation area could account for the mitigation required due to construction of the service line.

Based on the foregoing assessment, the Department agrees with PGE that the change does not result in significant adverse impacts to threatened and endangered species or fish and wildlife habitat. In addition, because the change avoided all impacts to identified wetlands and waterways, the change does not require a removal-fill permit.

In support of its change request, PGE provided Figure B, which indicates that the area impacted by construction of the service line was previously surveyed for cultural resources. PGE stated that the surveys identified no cultural resources within the vicinity of the area impacted by the service line, and no inadvertent discoveries of historic, cultural, or archaeological resources sites occurred during construction of the service line. The Department agrees that the change does not result in significant adverse impacts to historic, cultural, or archeological resources.

Based upon these considerations, the Department concludes that the change would not result in a significant adverse impact that the Council has not addressed in an earlier order to a resource protected by Council standards. As such, the installation of the backup station service power line does not require a site certificate amendment under OAR 345-027-0050(1)(a).

#### *OAR 345-027-0050(1)(b)*

The second factor under OAR 345-027-0050(1) would require a site certificate amendment if the proposed change "could impair the certificate holder's ability to comply with a site certificate condition." In its change request, PGE provided an analysis of compliance with all site certificate conditions.

PGE confirms that the service line was constructed in compliance with requirements in Conditions 6.5 and 7.9 regarding electrical safety. Condition 15.1 required PGE to submit a bond or letter of credit in the amount of \$7.884 million (adjusted to the date of issuance and adjusted on an annual basis thereafter) before beginning construction of Carty Generating Station Unit 1. In Attachment 1, PGE indicates that during facility decommissioning the majority of the backup station service power line would be abandoned in place (most of the service line is located three feet below grade), but that the portion located on Threemile Canyon Farms' property would be removed if requested by the property owner. In a June 9, 2017 email to the Department (Attachment 2), PGE provided detailed assumptions to support its estimate that the cost to remove the entire backup station service power line during decommissioning would be approximately \$640.00. PGE states that this cost would be 0.02 percent of the estimated Unit 1 decommissioning costs (before adding in overhead, profit, insurance, and contingencies) shown in the table on page 92 of the June 29, 2012 Final Order. PGE noted that the service line would be removed as part of the larger decommissioning of the switchyard and all necessary equipment would already be onsite; therefore, mobilization costs are already accounted for by the existing bond or letter of credit. The Department agrees with PGE that,

based on this information, construction and operation of the backup station service power line does not interfere with PGE's ability to comply with Condition 15.1.

As previously discussed in this letter, PGE acknowledged violation of several site certificate conditions, primarily related to performing construction work outside of approved areas and failing to provide proper notifications and mapping. PGE points out that work performed outside of the site boundary did not otherwise violate conditions prohibiting construction or other disturbance to potentially significant historic, cultural, or archaeological resource sites; Category 1, 2, or 3 habitat; State-listed threatened or endangered plant or wildlife species; State Candidate plant species; or jurisdictional waters in a way that would require a Removal-Fill permit. The actions PGE has committed to in order address the site certificate violations would ensure the site certificate holder's ability to comply going forward with those conditions related to providing proper notification and mapping.

The conditions violated by PGE were imposed by the Council in the June 29, 2012 Final Order to satisfy the requirements of the Land Use standard (OAR 345-022-0030), Siting Standards for Transmission Lines (OAR 345-024-0090), Public Services standard (OAR 345-022-0110), Fish and Wildlife Habitat standard (OAR 345-022-0060), and the Historic, Cultural, and Archaeological Resources standard (OAR 345-022-0090), and to ensure compliance with the Oregon Removal-Fill Law.<sup>1</sup> Based upon PGE's and the Department's analysis under OAR 345-027-0050(1)(a), the Department has determined that the change did not affect the certificate holder's ability to satisfy the requirements of the Land Use standard; Fish and Wildlife Habitat standard; Historic, Cultural, and Archaeological Resources standard; and the Removal-Fill Law. In addition, while PGE previously failed to provide proper notifications and mapping required by Condition 7.1(b), PGE designed the backup station service power line in compliance with the Siting Standards for Transmission Lines. Similarly, while PGE previously failed to provide proper notifications and mapping required by Condition 8.8, construction and operation of the backup station service power line has not resulted in significant adverse impacts of the ability of public and private providers to provide the services specified under the Public Services standard. ODOE therefore concludes that the change has not (to date) impacted the certificate holder's ability to satisfy the requirements of the standards for which these conditions were imposed, and will not in the future assuming timely implementation of the actions described above in response to the 30 day written report. In addition, the habitat mitigation area contains more than sufficient acreage credits to mitigate for the Category 4 habitat impacted by the backup station service power line. Therefore, the Department does not consider the certificate holder's previous violations of these conditions to be sufficient to necessitate a site certificate amendment pursuant to OAR 345-027-0050(1).

*OAR 345-027-0050(1)(c)*

The final factor under OAR 345-027-0050(1) would require a site certificate amendment if the proposed change "could require a new condition or a change to a condition in the site certificate." The Department agrees with PGE's analysis that the change would not require any new or changed conditions, because the site certificate already contains conditions adequate to address the impacts

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<sup>1</sup> PGE's change violated site certificate conditions 2.9(a), 4.4, 4.6, 7.1(b), 8.8, 10.7(b), 10.9(c)-(d), 10.27, 11.2, and 11.3. Conditions 2.9 and 4.4 are mandatory conditions per OAR 345-027-0020.

that have arisen from the change. As discussed, PGE has committed to addressing the condition violations, particularly related to notification and mapping. Additionally, the habitat mitigation area contains more than sufficient acreage credits to mitigate for the Category 4 habitat impacted by the backup station service power line.

### Determination

The Department agrees with PGE's evaluation under OAR 345-027-0050(3) that the change complies with applicable Council standards because the change does not alter the basis for the Council's previous findings of compliance with the standards. The change does not significantly change the facts and circumstances addressed by the Council in making previous findings of compliance with each of the applicable Council standards.

For the reasons discussed above, the Department has determined that a site certificate amendment is unnecessary to accommodate the change described in the April 20, 2017 change request. In accordance with the requirements of OAR 345-027-0050(4), PGE shall include a description of this change request and determination in the next annual report required under OAR 345-026-0080. In the annual report, PGE shall describe any unanticipated impacts that result from this change and describe how PGE addressed those impacts. In addition, ODOE will document the change in an order associated with any subsequent site certificate amendment.

Please note that OAR 345-027-0050(5) allows that at the request of a member of the Council, the Department's determination must be referred to the Council for concurrence, modification, or rejection. In compliance with this rule the Department will share its determination with EFSC, informing Council members of their rights under the rule. Should a Council member request that Council review the determination, this would likely go before EFSC at the July or August Council meeting.

If you have any questions, please do not hesitate to contact me.



Katie Clifford  
Energy Facility Siting Analyst  
[katie.clifford@oregon.gov](mailto:katie.clifford@oregon.gov)  
(503) 302-0267

**cc via e-mail distribution:**

Todd Cornett, Oregon Department of Energy  
Max Woods, Oregon Department of Energy  
Jesse Ratcliffe, Oregon Department of Justice

## Attachment 1



**Portland General Electric Company**  
121 SW Salmon Street • Portland, Oregon 97204

June 2, 2017  
Carty

Katie Clifford  
Energy Facility Siting Analyst  
Oregon Department of Energy  
550 Capitol Street NE  
Salem, OR 97301

Subject: Response to Department Questions – Backup Station Service Power Line Change Request

Dear Ms. Clifford,

On April 20, 2017 Portland General Electric Company (PGE) submitted a change request requesting that the Oregon Department of Energy (the Department) determine that the 34.5 kV backup station service power line serving the Grassland Switchyard from the Boardman Plant does not require an amendment to the Site Certificate. The Department posed several questions to assist the Department in their review of the change request. This letter provides responses to those questions.

**Question 1:**

Exhibit W of the Application for Site Certificate states: “All utilities located 3 feet below grade, including, but not limited to, circulating water pipe, duct banks, drainage, service, and make-up water, fire protection, grounding grid, and other electrical systems, will be abandoned in place and not removed.” Is the backup station service power line located at least 3 feet below grade, and would it be abandoned in place and not removed?

**Response:**

The backup station service power line is primarily located 3 feet below grade; however, where the line transitions from below grade to above grade at the power pole is not 3 feet below grade. Portions of the line that are 3 feet below grade would be abandoned in place; portions that are less than 3 feet below grade would be removed. Also, the portion of the backup station service power line located on Threemile Canyon Farms property would be decommissioned in consultation with the property owner (e.g., if the property owner requests that all equipment be removed regardless of depth then the portion located on non-PGE property would be entirely removed).

**Question 2:**

PGE’s 30 Day Written Report indicates that PGE will consult with Morrow County to determine if the change impacts one or more local permits. What has the result of that consultation been?

**Response:**

Morrow County has concluded that if the change request is approved then Morrow County would request that an updated Site Plan be submitted to the County with a cover letter explaining the reason for the updated plan. If the Department does not approve the change request then, through the subsequent amendment process for the site certificate, the County would issue amended CUP and Zoning permits.

**Question 3:**

Figure A only shows wetland and special status plant species surveys for 2009, 2011, and 2012 and then only Washington ground squirrel transects for 2016. Was this area ever surveyed for other special status animal species?

**Response:**

The biologists conducting Washington ground squirrel surveys included special status animals as incidental observations. The survey teams were familiar with the special status species potentially occurring in the area and specifically looked for these species in the course of the overall biological surveys. As a result of those surveys, the biologist did identify special status species on a number of occasions at other locations, as described in the various field reports that were submitted for the project. However, no special status species were observed in the area impacted by the 34.5 kV backup station service power line.

**Question 4:**

Please confirm with the property owner, Threemile Canyon Farms, that construction and operation of the backup station service line has not led to impacts to agricultural operations.

**Response:**

Threemile Canyon Farms has provided PGE with an email confirming that the construction and operation of the line has not impacted their operations. The email is attached for reference.

**Question 5:**

Please provide the alternatives analysis ("...must show that reasonable alternatives have been considered...") required by ORS 215.275(2). This can be brief (nor more than a few sentences should suffice).

**Response:**

The location of the 34.5 kV backup station service power line was located in exclusive farm use (EFU) because the line is locationally dependent and allowed PGE to make use of an existing right of way. Grassland Switchyard is located entirely on EFU land; therefore, any route selected for the backup power supply has to cross EFU land. Other alternatives would have required an approximately one-mile line be constructed from Grassland Switchyard to the Boardman Plant buildings, which would have also crossed EFU land; the location selected was the most direct route to connect Grassland Switchyard to the backup power provided by the Boardman Plant.

Please feel free to contact me at 503-464-2634 if you have any further questions.

Sincerely,



Lenna Cope, P.E.  
Environmental Engineer

Ms. Clifford  
June 2, 2017  
Page 3 of 3

Portland General Electric

C:  
Duane Kilsdonk, Oregon Department of Energy

Enclosures (1)

## **Lenna Cope**

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**From:** Myers, Marty <MMyers@rdoffutt.com>  
**Sent:** Wednesday, May 31, 2017 4:48 PM  
**To:** Lenna Cope  
**Subject:** RE: Location of PGE 34.5 kV underground line associated with Carty

\*\*\*Please take care when opening links, attachments or responding to this email as it originated outside of PGE.\*\*\*

Lenna,

The service line has not impacted our agricultural operations.

Thanks.

Marty Myers  
General Manager  
(541)481-2824 Office  
(503)816-0928

---

**From:** Lenna Cope [<mailto:Lenna.Cope@pgn.com>]  
**Sent:** Wednesday, May 31, 2017 2:28 PM  
**To:** Myers, Marty <[MMyers@rdoffutt.com](mailto:MMyers@rdoffutt.com)>  
**Subject:** RE: Location of PGE 34.5 kV underground line associated with Carty

Good Afternoon Marty,

The Oregon Department of Energy has requested that PGE confirm with Threemile Canyon Farms that construction and operation of the backup station service line has not led to impacts to agricultural operations. For your reference I have included the figure previously provided to you; could you respond to this email and confirm that the line has not impacted your agricultural operations?

Thank you.

**Lenna Cope**  
Environmental Engineer  
Portland General Electric  
121 SW Salmon Street, 3WTC0403  
Portland, OR 97204  
**office:** (503) 464-2634 **mobile:** (503) 313-5022  
**e:** [Lenna.Cope@pgn.com](mailto:Lenna.Cope@pgn.com)

---

**From:** Myers, Marty [<mailto:MMyers@rdoffutt.com>]  
**Sent:** Friday, April 28, 2017 3:55 PM  
**To:** Lenna Cope  
**Subject:** RE: Location of PGE 34.5 kV underground line associated with Carty

**\*\*\*Please take care when opening links, attachments or responding to this email as it originated outside of PGE.\*\*\***

Thanks Lenna.

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**From:** Lenna Cope [<mailto:Lenna.Cope@pgn.com>]  
**Sent:** Friday, April 28, 2017 3:44 PM  
**To:** Myers, Marty <[MMyers@rdoffutt.com](mailto:MMyers@rdoffutt.com)>  
**Cc:** Jaisen Mody <[Jaisen.Mody@pgn.com](mailto:Jaisen.Mody@pgn.com)>  
**Subject:** Location of PGE 34.5 kV underground line associated with Carty

Marty,

Please find attached a map showing the location of a 34.5 kV underground power line of which a portion is located on Threemile Canyon Farms property. The line was installed during construction of the Grassland Switchyard and runs underground from the switchyard to an existing above ground 34.5 kV line built as part of the Boardman Plant.

Below is a link to information regarding electric and magnetic fields (EMF), at the PGE page linked below you will find third-party sources for information on EMF research.

<https://www.portlandgeneral.com/safety/electric-magnetic-fields>

PGE is providing this information in accordance with our Carty Generating Station Site Certificate Condition 7.1(b); which requires PGE to provide landowners "a map of underground and overhead transmission lines on their property and advising landowners of possible health risks from electric and magnetic fields."

Please confirm receipt of this information and let me know if you have any questions.

Thank you.

**Lenna Cope**  
Environmental Engineer  
Portland General Electric  
121 SW Salmon Street, 3WTC0403  
Portland, OR 97204  
**office:** (503) 464-2634 **mobile:** (503) 313-5022  
**e:** [Lenna.Cope@pgn.com](mailto:Lenna.Cope@pgn.com)

## Attachment 2

**From:** [Lenna Cope](#)  
**To:** [CLIFFORD Katie \\* ODOE](#)  
**Subject:** RE: 34.5 kV Cost Estimate  
**Date:** Friday, June 9, 2017 11:20:33 AM

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Katie,

Please see below for information regarding the cost of decommissioning the 34.5 kV backup station service power line.

The 34.5 kV line contains approximately 2,500 linear feet of underground cable installed in conduit (3 insulator assemblies of approximately 800 feet each). In the original decommissioning estimate the electrical wrecking rate is \$0.05/ft, the breaker/insul/misc cost rate is \$5 ea, and the vault removal rate is \$500. Using the 2500ft, 3 insulator assemblies, and 1 vault removal the decommissioning cost of removing the entire line would be **\$640.00**. The line would be removed as part of the larger decommissioning of the switchyard and all necessary equipment would already be onsite; therefore mobilization costs are already accounted for.

In the original cost estimate the total Unit 1 cost before adding in overhead, profit, insurance and other contingencies was estimated at \$3,819,658; the cost of the 34.5 kV line would be 0.02% of the cost.

Please let me know if you need any more information to complete the change request determination.

**Lenna Cope**

Environmental Engineer  
Portland General Electric  
121 SW Salmon Street, 3WTC0403  
Portland, OR 97204  
**office:** (503) 464-2634 **mobile:** (503) 313-5022  
**e:** [Lenna.Cope@pgn.com](mailto:Lenna.Cope@pgn.com)

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**From:** CLIFFORD Katie \* ODOE [mailto:[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)]  
**Sent:** Friday, June 09, 2017 9:11 AM  
**To:** Lenna Cope  
**Subject:** RE: 34.5 kV Cost Estimate

**\*\*\*Please take care when opening links, attachments or responding to this email as it originated outside of PGE.\*\*\***

Thanks Lenna!

**Katie Clifford**

Energy Facility Siting Analyst  
Oregon Department of Energy

O: (503) 373-0076  
C: (503) 302-0267

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**From:** Lenna Cope [<mailto:Lenna.Cope@pgn.com>]  
**Sent:** Friday, June 9, 2017 9:10 AM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Subject:** 34.5 kV Cost Estimate

Katie,

I should have costs for decommissioning the 34.5 kV line to you by the end of today.

**Lenna Cope**

Environmental Engineer  
Portland General Electric  
121 SW Salmon Street, 3WTC0403  
Portland, OR 97204  
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