

1 AMENDMENT NUMBER ONE
2 TO THE
3 THERMAL POWER PLANT SITE CERTIFICATE
4 FOR THE
5 COYOTE SPRINGS COGENERATION PROJECT
6
7

8 This amendment number one to the thermal power plant site certificate for the Coyote
9 Springs Cogeneration Project (CSCP) is issued and executed pursuant to the Order in the
10 Matter of the Thermal Power Plant Site Certificate for the Coyote Springs Cogeneration
11 Project Request for Amendment No. 1 between the State of Oregon (State) acting by and
12 through the Energy Facility Siting Council (EFSC) and Portland General Electric
13 Company (PGE), an Oregon corporation.
14

15 The amendments revise certain site certificate conditions, as noted below, and add new
16 site certificate conditions that were originally commitments made by PGE in its site
17 certificate application and supporting documents.
18

19 III. WARRANTIES
20

21 Warranty (1) is replaced with the following warranty:
22

23 (1) Applicant represents and warrants that it has the present capabilities and
24 resources to construct, operate and retire the CSCP, including the ability to
25 finance and pay for the CSCP, substantially as described in the Site Certificate
26 and in the order approving the Site Certificate, as they may be amended from time
27 to time, and with the terms and conditions of the Site Certificate.
28

29 IV. MANDATORY CONDITIONS
30

31 Mandatory Condition (2) is replaced with the following condition:
32

33 (2) Applicant shall design, permit, construct, operate and retire the CSCP
34 substantially as described in the Site Certificate, as it may be amended from time
35 to time.
36

37 XI. CONDITIONS ISSUED PURSUANT TO APPLICANT REPRESENTATIONS
38

39 The site certificate is amended to add the conditions stated below. References to page
40 numbers and exhibits are to the Application for Site Certificate for CSCP.
41

- 42 1. PGE shall notify the Council of any modifications to the ownership of the
43 controlling interest of PGE.
44

- 1 2. PGE shall notify the Council of any change of the identity of the operator of the
2 facility.
- 3
- 4 3. NOx emissions shall be controlled to 25 ppm on natural gas. (p. B-3)
- 5
- 6 4. Each heat recovery steam generator shall be provided with an ammonia injection
7 system and selective catalytic reduction system to further reduce the NOx
8 emissions at the stack outlet. (p. B-4)
- 9
- 10 5. All chemicals listed in section 4.7 of Exhibit B shall be stored in approved storage
11 containers consistent with industry standards for the particular chemical. All
12 chemical storage systems shall have provisions for secondary containment to
13 prevent uncontrolled spills to the environment. (p. B-8)
- 14
- 15 6. PGE shall implement fire protection and life safety design features as described at
16 Section 4.10 of Exhibit B. (pp. B-9 and B-10)
- 17
- 18 7. The low NOx burners on the auxiliary boiler shall control emissions to a
19 maximum of 40 ppm at the stack outlet. (p. B-12)
- 20
- 21 8. All equipment drain wastewater shall be processed in an oil/water separator
22 designed to remove oil contamination down to 10 ppm in the discharge water.
23 Storm water collected within the fuel tank area shall be ... processed through the
24 facility oil/water separator down to 10 ppm oil in the discharge water. (pp. B-11)
- 25
- 26 9. Code classifications and requirements described in Section 5.2 of Exhibit B shall
27 apply to the energy facility and to any modifications. (p. B-14)
- 28
- 29 10. Aircraft warning lights shall be installed on the heat recovery boiler stacks if
30 required by the FAA. (pp. B-22)
- 31
- 32 11. Equipment layout shall allow access for fire fighting or responses to any spills
33 when required. (p. B-29)
- 34
- 35 12. The facility shall be designed, constructed, tested and operated in accordance with
36 the codes and standards normally used for this type of facility. Where State of
37 Oregon codes or local codes specify added or more stringent requirements, these
38 requirements shall be incorporated into the facility design and construction.
39 Codes listed in Exhibit B, Section 8.0 shall apply. (pp. B-30)
- 40
- 41 13. All of the equipment listed on Table B-2 may be constructed. PGE may construct
42 the fuel oil-related equipment shown on Figure B-M10. However, PGE shall not
43 use fuel oil for electric generation or steam production without prior Council
44 approval.
- 45

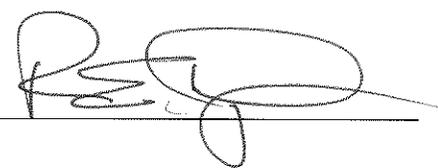
- 1 14. Acid and caustic shall each be stored in individual carbon steel storage tanks. The
2 tanks shall be located above ground within a concrete containment bermed area.
3 The bermed area shall contain sump pumps allowing any leakage to be transferred
4 to the neutralization system. These tanks shall be located outdoors with
5 appropriate weather protection. Handling of these materials shall be in
6 accordance with approved industry standard practice as well as federal, state and
7 local regulations. (p. F-4)
8
- 9 15. The ammonia storage system shall be designed to the requirements outlined in
10 American National Standard Institute (ANSI) K61.1, Safety Requirements for the
11 Storage and Handling of Anhydrous Ammonia. (p F-4)
12
- 13 16. The hydrogen storage and transfer system shall comply with the guidelines
14 established in section VIII of the American Society of Mechanical Engineers
15 (ASME) Boiler and Pressure Vessel Code and in ANSI B31.1 of the American
16 National Standard Code for Pressure Piping. Other codes that shall be followed
17 include the National Electrical Code (NEC) Article 500, NFPA 496, ANSI/AWS
18 D1.1 The area immediately around the hydrogen generators and storage system
19 area shall be an NFPA/NEC Class I, Division II, Group B Hazardous Area.
20 (p. F-4)
21
- 22 17. For miscellaneous materials described in section 2.7 (p. F-6), appropriate safety
23 measures shall be taken around the storage sites. Handling and storage of these
24 items shall be strictly in accordance with approved procedures to provide safe
25 storage of the substances. (p. F-5)
26
- 27 18. To ensure proper safe handling of the natural gas, the entire system shall be
28 installed and operated in accordance with the NFPA 54; Natural Fuel Gas Code,
29 Part 2; Gas Piping System Design, Materials and Components, Part 3; Gas Pipe
30 installation, Part 4; and Inspection, Testing and Purging. The piping shall be
31 designed in accordance with ANSI B31.8. (p. F-6)
32
- 33 19. Fuel control systems on the gas turbines shall include separate fuel shutoff valves
34 to stop all fuel flow to the unit under shutdown conditions. Fuel flow shall restart
35 when all permissive firing condition have been satisfied. Each fuel shutoff valve
36 shall have a mechanical device for local manual tripping and a means for remote
37 tripping. A vent valve shall be provided on the fuel gas system to vent
38 automatically the piping downstream of the shutoff valve when the fuel shutoff
39 valve closes. Gas shutoff valves shall be installed at the utility pipeline
40 connection point as well as at the facility. The area immediately around the gas
41 system shall be a NFPA/NEC Class I, Division II, Group D Hazardous Area.
42 Operations in the area shall be in accordance with this classification and accepted
43 industrial standards of practice and procedures. (p. F-7)
44

- 1 20. Management of non-fuel substances shall be conducted as described in section 3.2
- 2 of the ASC. (pp. F-6 and F-7)
- 3
- 4 21. Construction phase wastes shall be handled and disposed as described in Section
- 5 4.1 of the ASC. (pp. F-7 and F-8).
- 6
- 7 22. Hazardous waste shall be stored no more than 90 days and transported to a
- 8 licensed treatment storage disposal facility. (p. F-9)
- 9
- 10 23. Waste oil shall be collected in a single underground storage tank and trucked
- 11 offsite to an approved recycling and disposal facility. The underground tank shall
- 12 be of fiberglass double wall construction to provide corrosion protection and
- 13 secondary containment. Leakage monitoring shall also be provided. (p. F-10)
- 14
- 15 24. PGE shall set back heavy plant facilities a minimum of 60 feet from the edge of
- 16 the irrigation pond to the east of the facility site. (p G-6)
- 17
- 18 25. PGE shall plant fill slopes with vegetation to prevent surface erosion. (p. G-7)
- 19
- 20 26. PGE shall implement mitigation measures as described in section 4.0 of the ASC.
- 21 (p. G-8)
- 22
- 23 27. PGE shall implement mitigation measures to vegetation impacts described in
- 24 section 6.0 of the ASC. (p. N-4)
- 25
- 26 28. PGE shall implement mitigation measures described in section 5.0 of the ASC.
- 27 (p. P-4)
- 28
- 29 29. PGE shall implement mitigation measures described in section 5.0. (p. R-10)
- 30
- 31 30. PGE shall implement mitigation measures described in Exhibit W, unless those
- 32 are superseded by more detailed measures described in the Council's final order
- 33 of September 16, 1994 or in the site certificate.
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36 Portland General Electric Company

State of Oregon
Energy Facility Siting Council

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Terry Edvalson, Chair

December 10, 1996

December 6, 1996

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