AMENDMENT NUMBER ONE
TO THE
THERMAL POWER PLANT SITE CERTIFICATE
FOR THE
COYOTE SPRINGS COGENERATION PROJECT

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

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

III. WARRANTIES

Warranty (1) is replaced with the following warranty:

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

IV. MANDATORY CONDITIONS

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

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

XI. CONDITIONS ISSUED PURSUANT TO APPLICANT REPRESENTATIONS

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

1. PGE shall notify the Council of any modifications to the ownership of the controlling interest of PGE.
2. PGE shall notify the Council of any change of the identity of the operator of the facility.

3. NOx emissions shall be controlled to 25 ppm on natural gas. (p. B-3)

4. Each heat recovery steam generator shall be provided with an ammonia injection system and selective catalytic reduction system to further reduce the NOx emissions at the stack outlet. (p. B-4)

5. All chemicals listed in section 4.7 of Exhibit B shall be stored in approved storage containers consistent with industry standards for the particular chemical. All chemical storage systems shall have provisions for secondary containment to prevent uncontrolled spills to the environment. (p. B-8)

6. PGE shall implement fire protection and life safety design features as described at Section 4.10 of Exhibit B. (pp. B-9 and B-10)

7. The low NOx burners on the auxiliary boiler shall control emissions to a maximum of 40 ppm at the stack outlet. (p. B-12)

8. All equipment drain wastewater shall be processed in an oil/water separator designed to remove oil contamination down to 10 ppm in the discharge water. Storm water collected within the fuel tank area shall be ... processed through the facility oil/water separator down to 10 ppm oil in the discharge water. (pp. B-11)

9. Code classifications and requirements described in Section 5.2 of Exhibit B shall apply to the energy facility and to any modifications. (p. B-14)

10. Aircraft warning lights shall be installed on the heat recovery boiler stacks if required by the FAA. (pp. B-22)

11. Equipment layout shall allow access for fire fighting or responses to any spills when required. (p. B-29)

12. The facility shall be designed, constructed, tested and operated in accordance with the codes and standards normally used for this type of facility. Where State of Oregon codes or local codes specify added or more stringent requirements, these requirements shall be incorporated into the facility design and construction. Codes listed in Exhibit B, Section 8.0 shall apply. (pp. B-30)

13. All of the equipment listed on Table B-2 may be constructed. PGE may construct the fuel oil-related equipment shown on Figure B-M10. However, PGE shall not use fuel oil for electric generation or steam production without prior Council approval.
14. Acid and caustic shall each be stored in individual carbon steel storage tanks. The
tanks shall be located above ground within a concrete containment bermed area.
The bermed area shall contain sump pumps allowing any leakage to be transferred
to the neutralization system. These tanks shall be located outdoors with
appropriate weather protection. Handling of these materials shall be in
accordance with approved industry standard practice as well as federal, state and
local regulations. (p. F-4)

15. The ammonia storage system shall be designed to the requirements outlined in
American National Standard Institute (ANSI) K61.1, Safety Requirements for the
Storage and Handling of Anhydrous Ammonia. (p F-4)

16. The hydrogen storage and transfer system shall comply with the guidelines
established in section VIII of the American Society of Mechanical Engineers
(ASME) Boiler and Pressure Vessel Code and in ANSI B31.1 of the American
National Standard Code for Pressure Piping. Other codes that shall be followed
include the National Electrical Code (NEC) Article 500, NFPA 496, ANSI/AWS
D1.1 The area immediately around the hydrogen generators and storage system
area shall be an NFPA/NEC Class I, Division II, Group B Hazardous Area.
(p. F-4)

17. For miscellaneous materials described in section 2.7 (p. F-6), appropriate safety
measures shall be taken around the storage sites. Handling and storage of these
items shall be strictly in accordance with approved procedures to provide safe
storage of the substances. (p. F-5)

18. To ensure proper safe handling of the natural gas, the entire system shall be
installed and operated in accordance with the NFPA 54; Natural Fuel Gas Code,
Part 2; Gas Piping System Design, Materials and Components, Part 3; Gas Pipe
installation, Part 4; and Inspection, Testing and Purging. The piping shall be
designed in accordance with ANSI B31.8. (p. F-6)

19. Fuel control systems on the gas turbines shall include separate fuel shutoff valves
to stop all fuel flow to the unit under shutdown conditions. Fuel flow shall restart
when all permissive firing condition have been satisfied. Each fuel shutoff valve
shall have a mechanical device for local manual tripping and a means for remote
tripping. A vent valve shall be provided on the fuel gas system to vent
automatically the piping downstream of the shutoff valve when the fuel shutoff
valve closes. Gas shutoff valves shall be installed at the utility pipeline
connection point as well as at the facility. The area immediately around the gas
system shall be a NFPA/NEC Class I, Division II, Group D Hazardous Area.
Operations in the area shall be in accordance with this classification and accepted
industrial standards of practice and procedures. (p. F-7)
20. Management of non-fuel substances shall be conducted as described in section 3.2 of the ASC. (pp. F-6 and F-7)

21. Construction phase wastes shall be handled and disposed as described in Section 4.1 of the ASC. (pp. F-7 and F-8).

22. Hazardous waste shall be stored no more than 90 days and transported to a licensed treatment storage disposal facility. (p. F-9)

23. Waste oil shall be collected in a single underground storage tank and trucked offsite to an approved recycling and disposal facility. The underground tank shall be of fiberglass double wall construction to provide corrosion protection and secondary containment. Leakage monitoring shall also be provided. (p. F-10)

24. PGE shall set back heavy plant facilities a minimum of 60 feet from the edge of the irrigation pond to the east of the facility site. (p G-6)

25. PGE shall plant fill slopes with vegetation to prevent surface erosion. (p. G-7)

26. PGE shall implement mitigation measures as described in section 4.0 of the ASC. (p. G-8)

27. PGE shall implement mitigation measures to vegetation impacts described in section 6.0 of the ASC. (p. N-4)

28. PGE shall implement mitigation measures described in section 5.0 of the ASC. (p. P-4)

29. PGE shall implement mitigation measures described in section 5.0. (p. R-10)

30. PGE shall implement mitigation measures described in Exhibit W, unless those are superseded by more detailed measures described in the Council’s final order of September 16, 1994 or in the site certificate.

State of Oregon

Portland General Electric Company

Energy Facility Siting Council

Terry Edvalson, Chair

December 10, 1996

December 6, 1996