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FOURTH AMENDED SITE CERTIFICATE
FOR THE
KLAMATH COGENERATION PROJECT

ISSUED BY

OREGON ENERGY FACILITY SITING COUNCIL
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SALEM OR 97301-3737

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MARCH 27, 2009

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1 **FOURTH AMENDED**
2 **SITE CERTIFICATE**
3 **FOR THE**
4 **KLAMATH COGENERATION PROJECT**
5

6 **INTRODUCTION**

7 This Amended Site Certificate for the Klamath Cogeneration Project (KCP or “the Facility”) is
8 issued and executed in the manner provided by ORS Chapter 469, by and between the State of
9 Oregon (State), acting by and through its Energy Facility Siting Council (EFSC or “the
10 Council”), and Klamath Energy LLC (Klamath Energy or Certificate Holder), a direct subsidiary
11 of PPM Energy, Inc. (PPM).
12

13 The findings of fact, reasoning and conclusions of law underlying the terms and conditions of
14 this Amended Site Certificate are set forth in the following documents, which by this reference
15 are incorporated herein: (a) the Council's Final Order for the KCP Application for Site
16 Certificate (dated November 6, 1996) which the Council granted on August 15, 1997, (b) the
17 Council's Final Order for the KCP Request for Amendment (dated October 6, 1997) which the
18 Council granted on April 17, 1998, (c) the Council’s Final Order for the KCP Request for
19 Amendment No.2, which the Council granted on December 11, 1998, (d) the Council’s Final
20 Order approving the KCP Application to Transfer Site Certificate, which the Council granted on
21 September 21, 2007, and (e) the Council’s Final Order for the KCP Request for Amendment No.
22 4 (dated November 25, 2008) which the Council granted on March 27, 2009 (collectively the
23 "Final Orders").
24

25 In interpreting this Amended Site Certificate, any ambiguity will be clarified by reference to, in
26 the following priority: (a) this Amended Site certificate, (b) the Final Order granted on March
27 27, 2009 for Amendment No. 4 to the Site Certificate, (c) the Final Order granted on September
28 21, 2007 approving the Request to Transfer Site Certificate, (d) the Final Order granted on
29 December 11, 1998 for Amendment No. 2 to the Site Certificate, (e) the Final Order granted on
30 April 17, 1998 for Amendment No. 1 to the Site Certificate, (f) the Final Order granted on
31 August 15, 1997 for the Application for Site Certificate, (g) the 500-Megawatt Exemption Final
32 Order, and, if necessary, (h) the record of the proceedings which led to those Orders.
33

34 The terms used in this Amended Site Certificate shall have the same meaning as set forth in ORS
35 469.300 and Oregon Administrative Rules (OAR) 345-01-010, except where otherwise stated or
36 where the context clearly indicates otherwise. "Department" means the Oregon Department of
37 Energy
38

39 **I. SITE CERTIFICATION**

40 A. To the extent authorized by State law and subject to the conditions set forth herein, the
41 State approves and authorizes the City to construct, and Klamath Energy to operate and
42 retire a natural gas-fired combustion turbine cogeneration Energy Facility, together with
43 certain Related or Supporting Facilities, at the Site as described in section II of this
44 Amended Site Certificate, near Klamath Falls, Oregon. ORS 469.401(1). [Amendment
45 #3]
46

- 1 B. This Amended Site Certificate shall be effective until it is terminated pursuant to OAR
2 345-27-110, or the rules in effect on the date that termination is sought, or until the
3 Amended Site Certificate is revoked pursuant to ORS 469.440 and OAR 345-29-100, or
4 the statutes and rules in effect on the date that revocation is ordered. ORS 469.401(1)
5
- 6 C. This Amended Site Certificate does not address, and is not binding with respect to,
7 matters which were not addressed in the Council's Final Order. These matters include but
8 are not limited to: building code compliance, wage, hour and other labor regulations,
9 local government fees and charges, and other design or operational issues that do not
10 relate to siting the Facility (ORS 469.401(4)); and permits issued under statutes and rules
11 for which the decision on compliance has been delegated by the Federal government to a
12 state agency other than the Council. 469.503(3). Some of these matters are identified in
13 Section V of this Amended Site Certificate.
14
- 15 D. Both the State and Klamath Energy shall abide by local ordinances and state law and the
16 rules of the Council in effect on the date this Amended Site Certificate is executed. ORS
17 469.401(2). In addition, upon a clear showing of a significant threat to the public health,
18 safety or the environment that requires application of later-adopted laws or rules, the
19 Council may require compliance with such later-adopted laws or rules. ORS 469.401(2).
20
- 21 E. For a permit, license or other approval addressed in and governed by this Amended Site
22 Certificate, Klamath Energy shall comply with applicable state and federal laws adopted
23 in the future and related to that permit, license or other approval to the extent that such
24 compliance is required under the respective state agency statutes and rules. ORS
25 469.401(2).
26
- 27 F. Subject to the conditions herein, this Amended Site Certificate binds the State and all
28 counties, cities and political subdivisions in this State as to the approval of the Site and
29 the construction, operation and retirement of the Facility as to matters that are addressed
30 in and governed by this Amended Site Certificate. ORS 469.401(3).
31
- 32 G. Each affected state agency, county, city and political subdivision in Oregon with
33 authority to issue a permit, license or other approval addressed in or governed by this
34 Amended Site Certificate shall, upon submission of the proper application and payment
35 of the proper fees, but without hearings or other proceedings, issue such permit, license
36 or other approval subject only to conditions set forth in this Amended Site Certificate.
37 ORS 469.401(3).
38
- 39 H. After issuance of this Amended Site Certificate, each state agency or local government
40 agency that issues a permit, license or other approval for the KCP shall continue to
41 exercise enforcement authority over such permit, license or other approval. ORS
42 469.401(3).
43
- 44 I. After issuance of this Amended Site Certificate, the Council shall have continuing
45 authority over the Site and may inspect, or direct the Department to inspect, or request
46 another state agency or local government to inspect, the Site at any time in order to assure

1 that the Facility is being operated consistently with the terms and conditions of this
2 Amended Site Certificate. ORS 469.430.

3
4 **II. DESCRIPTION OF THE FACILITY AND SITE**

5 In the event of a conflict between the descriptions of the Facility in this Amended Site Certificate
6 and the Council's Final Orders, this Amended Site Certificate shall control. [Note: Amendment
7 No. 1 to the KCP Site Certificate allowed for the option of building either a 318-megawatt (MW)
8 net output facility based on one combustion turbine configuration or a 525-MW net output
9 facility based on a two combustion turbine configuration¹. Amendment No. 2 to the KCP Site
10 Certificate allowed for the option of either a 230-kilovolt (kV) electrical interconnection
11 transmission line or a 500-kV electrical interconnection transmission line. Since the KCP has
12 been constructed as a 525-MW net output two combustion turbine facility with a 500-kV
13 electrical interconnection line, various changes were made to the KCP Site Certificate upon
14 approval of Amendment No. 3 to reflect these facts. [Amendment #3]

15
16 **A. Description of the Amended Facility**

17
18 **A.1. The Energy Facility**

19
20 The Energy Facility is a combined-cycle, combustion turbine (CT) cogeneration facility, based
21 on two combustion turbines (CT).

22
23 Major Structures and Equipment

24
25 The two-CT Energy Facility will be capable of producing up to 525 megawatts (net) of
26 electricity at site conditions when providing zero pounds per hour of steam to off-site industrial
27 use. The combustion turbines will burn only natural gas. The auxiliary boiler will burn primarily
28 natural gas, but may burn low-sulfur oil as a backup fuel. The on-site emergency diesel generator
29 will burn low-sulfur oil. The estimated life of the Energy Facility is at least 30 years. The two-
30 CT Energy Facility is shown in the RFA, Fig., B-3, which is included in this Amended Site
31 Certificate as Appendix A.

32
33 The two-CT Energy Facility consists of five major pieces of equipment: two CTs, two heat
34 recovery steam generators (HRSGs), and one steam turbine generator.

35
36 The Energy Facility includes a turbine generator building about 70 feet tall and the following
37 related structures: two HRSGs that are approximately 110 feet tall; two HRSG emission stacks
38 that are approximately 150 feet tall; a mechanical evaporation cooling tower about 50 feet tall;
39 an auxiliary boiler with an exhaust stack that is about 125 feet tall; an approximately 30-foot-

¹ The KCP was initially described as a nominal 500-MW natural gas-fired electric cogeneration facility. As a consequence of upgrading the combustion turbines, Klamath Energy increased the facility's electrical output by 25 megawatts and lowered the plant heat rate by about 100 BTU/kwh. The Department analyzed the upgrades under OAR 345-027-0050(3) and concluded they did not necessitate amendment of the KCP site certificate. The Department's analysis was summarized in a letter from Adam Bless, ODOE, to Mike Roberts, Iberdrola Renewables, dated December 31, 2008.

1 high, above-ground 200,000 gallon fuel oil storage tank; an electrical substation with outdoor
2 transformers and switches; an approximately 125,000 square-foot stormwater
3 retention/evaporation pond; on-site parking; and a variety of storage tanks and other structures.
4 The Energy Facility includes four major systems: the power generation system, the cycle cooling
5 system, the control system, and the electric and transmission system.

6
7 The power generation system includes three primary components: the combustion turbine
8 generators, the HRSGs, and the steam turbine generator.

9
10 The cycle cooling system includes a water-cooled steam surface condenser, an evaporative
11 mechanical induced draft cooling tower consisting of eight cells, boiler and cooling tower water
12 chemical treatment systems, and a component cooling system.

13
14 The control system includes distributed control systems, an uninterruptible power supply, and an
15 instrument air system.

16
17 The electric and transmission system includes an electric power system and a 500-kV electric
18 transmission interconnection line segment to PacifiCorp's Meridian to Captain Jack 500-kV
19 transmission line.

20
21 The Energy Facility also includes NO_x control systems, a continuous emissions monitoring
22 system, a fire protection system, water treatment systems and a stormwater drainage system.

23 24 Capacity and Output

25
26 The Energy Facility is authorized to have a nominal electric generating capacity of up to 525
27 MW (net) at annual average site conditions with no steam to off-site industrial use and using
28 natural gas as the fuel.

29
30 The expected ratings for the two CT Energy Facility at annual average conditions (48 degrees F)
31 adjusted to site elevation are:

32
33 Gross power output is estimated as approximately 474 MW at zero steam to off-site
34 industrial use, and 453 MW at 200,000 pounds per hour of steam to off-site industrial
35 use.

36
37 Net power output is estimated as approximately 464 MW at zero steam to off-site
38 industrial use, and 443 MW at 200,000 pounds per hour of steam to off-site industrial
39 use.

40
41 (RFA, Exhibit B, p.B-6, Footnotes 1 and 2):

42
43 The Energy Facility will be designed to achieve a capacity factor in excess of 93 percent. Actual
44 capacity factor will depend on dispatch of the Energy Facility, operating and maintenance
45 considerations, and other factors. The forced outage rate for the Energy Facility is expected to be
46 about two percent. The Energy Facility will be designed to operate as a dispatchable facility

1 capable of stable operation from at least 50 up to 100 percent of its rated output and with
2 multiple starts.

3
4 Water Use

5
6 The Energy Facility will reuse treated effluent from the City's Spring Street Wastewater
7 Treatment Plant (SSWTP) for its major source of water. This water will be used in the cooling
8 tower system for evaporative cooling. The two-CT Energy Facility is estimated to use up to
9 about 2,325 gallons per minute (gpm)(about 3.35 million gallons per day) of treated effluent on
10 an annual average basis. (For the two-CT Energy Facility, see the RFA, Exhibit O, Table O-1, in
11 Appendix C to this Amended Site Certificate.)

12
13 The Energy Facility will obtain good quality water from the City's existing municipal water
14 supply system. The Energy Facility is estimated to use about 160 gpm (about 0.23 million
15 gallons per day) of this water on an annual average basis.

16
17 The Energy Facility will obtain good quality water from Collins to make steam for Collins.
18 Based on a Collins steam demand of 200,000 lbs/hr, the Energy Facility is estimated to use about
19 400 gpm of Collins' water on an annual average basis. This water will reduce by an equal amount
20 the amount of water that Collins uses to make its own steam. Of the 400 gpm, about 200 gpm
21 will be condensed steam and about 200 gpm will be from a Collins' groundwater well. The
22 Energy Facility will dispose of its wastewater (both process wastewater and sanitary wastewater)
23 to the SSWTP. The two CT Energy Facility is estimated to produce up to about 695 gpm (about
24 1.0 million gallons per day) of wastewater on an annual average basis.

25
26 **A.2. Related or Supporting Facilities**

27
28 The Facility will include the following Related or Supporting Facilities:

29
30 A steam pipeline to carry steam from the Energy Facility to the Collins plant and a pipeline to
31 return condensed steam and water to the Energy Facility. The steam pipeline will be above
32 ground, about 18 inches in diameter and about a mile long. The return pipeline will be above
33 ground, about six inches in diameter and about one mile long.

34
35 A natural gas interconnection with Pacific Gas Transmission Company's recently built Medford
36 Lateral natural gas pipeline which crosses Collins property adjacent to the Energy Facility Site.
37 The interconnection will be about 12 inches in diameter and less than 300 feet long.

38
39 A 500-kV switchyard that interconnects with a realigned segment of PacifiCorp's Meridian to
40 Captain Jack 500-kV electric transmission line (the 500-kV realignment), as described in the
41 Final Order for Amendment No. 2 (the 500-kV interconnection alternative). [Amendment #2]

42
43 A new underground pipeline to supply cooling water to the Energy Facility. The pipeline will
44 carry treated wastewater from the SSWTP. It will be about 14 to 16 inches in diameter and about
45 six miles long.

1 A new underground pipeline to return wastewater from the Energy Facility to the City's existing
2 sewer system. This line will be about eight inches in diameter and about two miles long.

3
4 A new underground water line to supply good quality water to the Energy Facility from the
5 City's existing water system. This line will be about six inches in diameter and about two miles
6 long.

7
8 **B. Location of the Facility**

9
10 The locations of the Energy Facility and the related or supporting facilities for the amended KCP
11 are the same of those for the KCP as originally approved in August 1997.

12
13 **B.1. The Energy Facility Site**

14
15 The Energy Facility Site is about one-half mile west of the U.S. Highway 97 bridge over the
16 Klamath River. It is on about 20 acres of land owned by Collins Products. The Site is within
17 Klamath County and is outside the City limits and the Urban Growth Boundary. The Site is in
18 Section 18 of Township 39 South, Range 9 East, in Klamath County, Oregon. The location of the
19 Facility is shown in the ASC, Fig. C-1, which is included in this Amended Site Certificate as
20 Appendix B.

21
22 **B.2. Related or Supporting Facility Sites**

23
24 The routes of the related or supporting Facilities, as originally approved, are shown in the ASC,
25 Fig C-1. The KCP's June 30, 1999 semiannual construction report confirmed that the 500-kV
26 interconnection alternative had been selected. Therefore, the following description of that
27 alternative applies. [Amendment #2]

28
29 The KCP energy facility site with the 500-kV interconnection alternative shall be located on
30 about 20 acres of land owned by Collins Products as shown in Figure 1 of the Request for
31 Amendment No. 2. The location of the 500-kV realignment shall be as shown in Figure 2 of the
32 Request for Amendment No. 2. [Amendment #2]

33
34 The City shall ensure that the 500-kV switchyard is designed, constructed, operated and retired
35 substantially as described in the Final Order for Amendment No. 2 and in accordance with the
36 conditions of the Amended Site Certificate and Amendment No. 2 that are applicable to the KCP
37 switchyard. [Amendment #2]

38
39 The City shall ensure that the realigned segment of the Meridian to Captain Jack 500-kV
40 transmission line is designed and constructed substantially as described in the Final Order for
41 Amendment No. 2 and in accordance with the conditions of the Amended Site Certificate and
42 this Amendment No. 2 that are applicable to the design and construction of the KCP electrical
43 interconnection and transmission facilities. [Amendment #2]

1 This Amended Site Certificate contains no provisions or conditions that are intended to apply to
2 the electrical operation of and transmission of electricity over the realigned segment of the
3 Meridian to Captain Jack 500-kV transmission line. [Amendment #2]
4

5 The route of the steam and condensate return pipelines is entirely on land owned by Collins. It
6 runs between the Energy Facility and the Collins plant to the southwest. It is within Section 18 of
7 Township 39 South, Range 9 East, and Sections 13 and 24 of Township 39 South, Range 8 East.
8 The route of the natural gas interconnection is entirely on Collins property. It is immediately
9 south of the Energy Facility. It is within Section 18 of Township 39 South, Range 9 East.
10

11 The route of the underground cooling water supply pipeline begins at the SSWTP. Within City
12 limits, the route is within existing City street rights-of-way. It crosses the Link River attached to
13 the underside of an existing bridge near the north end of Lake Ewauna. Upon leaving City limits,
14 the route follows an existing roadway corridor. Near Memorial Park, it follows an existing City
15 sewer force main easement to Highway 97 and then runs within Highway 97 right-of-way until it
16 reaches Collins property. From this point it crosses Collins property to the Energy Facility. The
17 route is within Sections 32 and 33 of Township 38 South, Range 9 East, and Sections 5, 8, 7 and
18 18 of Township 39 South, Range 9 East.
19

20 The entire length of the route of the underground wastewater return pipeline is next to the
21 cooling water supply pipeline. It begins at the Energy Facility, crosses Collins property and joins
22 Highway 97 right-of-way just north of the bridge across the Klamath River. From there it follows
23 Highway 97 right-of-way north to the intersection with Highway 66. Near the Highway 66
24 intersection, it connects into the City's existing sewer force main. It is within Sections 18 and 7
25 of Township 39 South, Range 9 East.
26

27 The route of the underground potable water line begins at an existing City potable water main
28 near the intersection of Highway 66 and Weyerhaeuser Road. The route is within existing county
29 street rights-of-way from Highway 66 along Weyerhaeuser Road until it reaches Collins
30 property. It then goes east across Collins property to the Energy Facility. It is within Section 13
31 of Township 39 South, Range 8 East, and Section 18 of Township 39 South, Range 9 East.
32

33 **III. CONDITIONS REQUIRED BY COUNCIL RULES** 34

35 The following conditions in this Amended Site Certificate are specifically required by OAR 345-
36 27-020 (Mandatory Conditions in Site Certificates), OAR 345-27-023 (Site Specific Conditions),
37 OAR 345-27-028 (Monitoring Conditions), OAR 345-24-060 (Public Health and Safety
38 Standards for Pipelines), OAR 345-24-090 (Design Standards for Transmission Lines) and in
39 OAR 345, division 26 (Construction and Operation Rules for Facilities) to address Facility and
40 site-specific conditions and requirements. These conditions shall apply in addition to, and should
41 be read together with, the additional specific conditions in section IV of this Amended Site
42 Certificate to ensure compliance with the standards, statutes and rules described in ORS 469.501
43 and 469.503.
44

45 In addition to all other conditions stated in this Amended Site Certificate, Klamath Energy is
46 subject to all conditions and requirements contained in the rules of the Council and local

1 ordinances and state law in effect on the date this Amended Site Certificate is executed, except
2 that upon a clear showing of a significant threat to the public health, safety or the environment
3 that requires application of later-adopted laws or rules, the Council may require compliance with
4 such later-adopted laws or rules. ORS 469.401(2).

5
6 In the event any of the conditions in this Amended Site Certificate conflict with or are
7 inconsistent with a requirement in OAR chapter 345, or a condition in the Council's Final Orders,
8 this Amended Site Certificate shall control.

9
10 As the holder of the Amended Site Certificate, Klamath Energy shall be responsible for ensuring
11 compliance with all provisions of this Amended Site Certificate.

12
13 **A. Mandatory Conditions in Site Certificates OAR 345-27-020**

- 14
15 (1) The Certificate Holder shall submit to the Department a legal description of the Site to be
16 appended to this Amended Site Certificate prior to construction.
17
18 (2) The Facility shall be designed, constructed, operated and retired:
19
20 (a) Substantially as described in this Amended Site Certificate;
21
22 (b) In compliance with the requirements of ORS Chapter 469, applicable Council
23 rules, and applicable state and local laws, rules and ordinances in effect at the
24 time this Amended Site Certificate is issued; and
25
26 (c) In compliance with all applicable permit requirements of other state agencies.
27
28 (3) Construction of the Facility must begin and be completed by dates specified in section
29 IV.A. of this Amended Site Certificate.
30
31 (4) No construction, including clearing of a right-of-way, except for the initial survey, may
32 commence on any part of the Facility until the Certificate Holder has adequate control, or
33 has the statutory authority to gain control, of the lands on which clearing or construction
34 will occur.
35
36 (5) Prior to construction, the Certificate Holder shall submit to the State of Oregon, through
37 the Council, a bond or comparable security, satisfactory to the Council, in an amount
38 specified in section IV.D. of this Amended Site Certificate adequate to restore the Site to
39 a useful condition if the Certificate Holder:
40
41 (a) Begins but does not complete construction of the Facility; or
42
43 (b) Permanently closes the Facility before establishing a financial mechanism or
44 instrument, satisfactory to the Council, that will assure funds will be available to
45 adequately retire the Facility and restore the Site.
46

1 The security the Council determines to be satisfactory is described in section IV.D of this
2 Amended Site Certificate.

3
4 (6) If mitigation is required after an affirmative finding by the Council under any standards
5 of OAR Chapter 345, Division 22 or Division 24, the Certificate Holder, in consultation
6 with affected state agencies and local governments designated by the Council, shall
7 develop specific mitigation plans consistent with Council findings under the relevant
8 standards. Such plans must be approved by the Department prior to the beginning of
9 construction or, as appropriate, operation.

10
11 (7) The Certificate Holder shall prevent any condition, over which the Certificate Holder has
12 control, from developing on the Site that would preclude restoration of the Site to a useful
13 condition.

14
15 (8) Conditions related to Facility retirement and Site restoration:

16
17 (a) The Certificate Holder shall establish a financial mechanism or instrument
18 satisfactory to the Council that will ensure funds will be available to adequately
19 retire the Facility and restore the Site. The financial mechanism the Council
20 determines to be satisfactory is described in section IV.D of this Amended Site
21 Certificate;

22
23 (b) At least five years prior to planned retirement of the Facility, the Certificate
24 Holder shall submit a retirement plan to the Council for approval. The plan shall
25 describe how the Site will be restored adequately to a useful condition, including
26 options for post-retirement land use, information on how impacts to fish, wildlife
27 and the environment will be minimized during the retirement process and
28 measures to protect the public against risk or danger resulting from post-
29 retirement Site conditions; and

30
31 (c) The Facility shall be retired after its useful life in accordance with the approved
32 final retirement plan, pursuant to OAR 345-27-110.

33
34 (9) This Amended Site Certificate includes as conditions those representations from the
35 Application for Site Certificate for the KCP, the Requests for Amendments Nos. 1 & 2 to
36 the KCP, and the relevant supporting record deemed by the Council to be binding
37 commitments on the part of the City. The conditions that the Council deems to be binding
38 commitments on the part of Klamath Energy are listed in Section IV of this Amended
39 Site Certificate and Appendices.

40
41 (10) The Certificate Holder shall restore vegetation to the extent practicable and shall
42 landscape portions of the Site disturbed by construction in a manner compatible with its
43 surroundings and/or proposed future use. Upon completion of construction, the
44 Certificate Holder shall dispose of all temporary structures not required for future use and
45 all timber, brush, refuse and flammable or combustible material resulting from the
46 clearing of land or from construction of the Facility.

- 1
2 (11) The Facility shall be designed, engineered and constructed to avoid potential dangers to
3 human safety presented by seismic hazards affecting the Site as defined in ORS
4 455.447(1)(d), and including amplification, that are expected to result from the
5 reasonably probable seismic event.
6
7 (12) The transfer of the site certificate from the City to Klamath Energy shall not occur until
8 Klamath Energy delivers to EFSC evidence that:
9 (a) The City and Klamath Energy or PPM have entered into the Cooling Water
10 Agreement described in the July 17, 2007 Memorandum of Understanding
11 included in the Request for Transfer and the September 12, 2007 letter from Jeff
12 Ball and Peter Van Alderwerelt to Adam Bless.
13
14 (b) The City and Klamath Energy or PPM have executed the agreement for Klamath
15 Energy to discharge process waste water and sanitary waste water to the SSWTP,
16 to be discharged under the SSWTP's NPDES permit
17
18 (c) The City has received the Order of the Circuit Court of Klamath County,
19 validating the City's legal authority to enter into and perform its obligations in
20 connection with the transfer, as described in item 4.3 of the Memorandum of
21 Understanding dated July 17, 2007 and included in the Request for Transfer,
22
23 (d) The Federal Energy Regulatory Commission (FERC) has issued such approvals as
24 are necessary for Klamath Energy to proceed with the acquisition of the Facility
25
26 (e) Contracts for delivery of steam to the steam host have been transferred from the
27 City to Klamath Energy or PPM,
28
29 (f) Title V and Title IV air quality permits are transferred by DEQ from the City to
30 Klamath Energy or PPM, and
31
32 (g) Klamath Energy or PPM delivers to the Council a letter of credit in the amount of
33 \$8.6 million that replaces the Termination Fund maintained by the Certificate
34 Holder to satisfy Conditions IV.D.3, IV.D.4 and IV.D.5. [Amendment #3] The
35 amount of the letter of credit shall be reduced to \$4.511 million (1st Quarter 2009
36 dollars) upon the Council's approval of Amendment 4. [Amendment #4]
37

38 **B. Site Specific Conditions OAR 345-27-023**
39

- 40 (1) The Certificate Holder shall notify the Department, the State Building Codes Division
41 and the Department of Geology and Mineral Industries promptly if Site investigations or
42 trenching reveal that conditions in the foundation rocks differ significantly from those
43 described in the Application for Site Certificate or the Request for Amendment for the
44 KCP. The Council may, at such time, require the Certificate Holder to propose additional
45 mitigating actions in consultation with the Department of Geology and Mineral Industries
46 and the Building Codes Division.

- 1
2 (2) The Certificate Holder shall notify the Department, the State Building Codes Division
3 and the Department of Geology and Mineral Industries promptly if shear zones, artesian
4 aquifers, deformations or clastic dikes are found at or in the vicinity of the Site.
5
6 (3) The Certificate Holder shall restore the reception of radio and television at residences and
7 commercial establishments in the primary reception area to the level present prior to
8 operations of the transmission line, at no cost to residents experiencing interference
9 resulting from the transmission line.

10
11 **C. Monitoring Conditions OAR 345-27-028**
12

- 13 (1) The Certificate Holder shall establish, in consultation with affected state agencies and
14 local governments, monitoring programs, as provided in section IV of this Amended Site
15 Certificate, for impact on resources protected by the standards of OAR Chapter 345,
16 Divisions 22 and 24, and to ensure compliance with the Amended Site Certificate. The
17 programs shall be subject to the review and approval of the Council.
18
19 (2) For each monitoring program that it establishes, the Certificate Holder shall have quality
20 assurance measures that are reviewed and approved by the Department prior to
21 commencement of construction or commencement of commercial operation, as provided
22 in section IV of this Amended Site Certificate.
23
24 (3) If the Certificate Holder becomes aware of a significant environmental change or impact
25 attributable to the Facility, the Certificate Holder shall submit to the Department as soon
26 as possible a written report identifying the issue and assessing the impact on the Facility
27 and any affected conditions of this Amended Site Certificate.
28

29 **D. Public Health and Safety Standards for Pipelines OAR 345-24-060**
30

31 For the purposes of conditions in section III.D, "pipelines" means the KCP 300-foot
32 (approximately) natural gas interconnection between the Energy Facility and the PGT Medford
33 lateral pipeline.
34

- 35 (1) Pipelines shall be constructed in accordance with the requirements of the U.S.
36 Department of Transportation as set forth in Title 49, Code of Federal Regulations, Part
37 192.
38
39 (2) Pipelines shall be designed so that noise resulting from operation of compressor stations
40 and other Related or Supporting Facilities shall not violate standards specified in OAR
41 Chapter 340, Division 35.
42
43 (3) Pipelines shall have mechanical structures that allow the pipeline to be sealed off, in the
44 event of leakage, in a manner that will minimize the release of flammable materials. This
45 is rebuttably presumed to be satisfied by the requirements of Title 49, Code of Federal
46 Regulations, Part 192.

1
2 (4) The Certificate Holder shall develop a program using the best available practicable
3 technology to monitor pipelines to ensure protection of public health and safety.
4

5 **E. Design Standards for Transmission Lines OAR 345-24-090**
6

7 For the purposes of conditions in section III.E., "transmission line" means the 500-kV
8 transmission line described in the Final Order for Amendment No. 2 to the site certificate.
9 [Amendment #3]
10

11 (1) The transmission line shall be designed so that alternating current electric fields shall not
12 exceed 9 kV per meter at one meter above the ground surface in areas accessible to the
13 public.
14

15 (2) The transmission line shall be designed so that induced currents resulting from the
16 transmission line and Related or Supporting Facilities will be as low as reasonably
17 achievable. The City must develop and implement a program which shall provide
18 reasonable assurance that all fences, gates, cattleguards, trailers, or other objects or
19 structures of a permanent nature that could become inadvertently charged with electricity
20 shall be grounded through the life of the line.
21

22 (3) The transmission line shall be designed, constructed, and operated in a manner consistent
23 with the 1993 edition of National Electrical Safety Code (American National Standards
24 Institute, Section C2, 1993 Edition).
25

26 **F. Construction and Operation Rules for Facilities OAR 345- 26**
27

28 (1) Compliance Plans (OAR 345-26-040)
29

30 Following receipt of this Amended Site Certificate or an amendment of this Amended Site
31 Certificate, the Certificate Holder shall implement a plan that verifies compliance with all terms
32 and conditions of this Amended Site Certificate and applicable statutes and rules. This plan shall
33 be documented and maintained for Department or Council inspection.
34

35 (2) Annual Status Report for Non-nuclear Facilities (OAR 345-26-080)
36

37 General Reporting Obligation for non-nuclear facilities. The Certificate Holder shall, within 120
38 days of the end of each calendar year, submit an annual report to the Council addressing the
39 subjects listed in this condition. The reporting date may be changed by mutual agreement of the
40 Council Secretary and the Certificate Holder. To the extent that information required by this
41 condition is contained in reports the Certificate Holder submits to other state, federal or local
42 agencies, excerpts from such other reports may be submitted to satisfy this condition. The
43 Council reserves the right to request full copies of such excerpted reports.
44

45 Contents of Annual Report:
46

- 1 (a) Facility Status: An overview of Site conditions, the status of facilities under
2 construction, and a summary of the operating experience of facilities that are in
3 operation. This section of the annual report shall describe any unusual events,
4 such as earthquakes, extraordinary windstorms, major accidents, or the like,
5 which occurred during the year and which had a significant adverse impact on the
6 Facility.
7
- 8 (b) Reliability and Efficiency of Power Production: For electric power plants:
9
- 10 (A) The plant availability and capacity factors for the reporting year. If
11 equipment failures or plant breakdowns had a significant impact on those
12 factors, describe them and plans to minimize or eliminate their recurrence.
13
- 14 (B) The efficiency with which the power plant converts fuel into electric
15 energy. If fuel chargeable to power heat rate was evaluated when the
16 Facility was sited, efficiency shall be calculated using the same formula
17 and assumptions, but using actual data.
18
- 19 (c) Status of Surety Information: The annual report shall provide documentation
20 demonstrating that the bond or other security provided under section III.A.(5) of
21 this Amended Site Certificate is in full force and effect and will remain in full
22 force and effect for the term of the next reporting period.
23
- 24 (d) Industry Trends: The annual report shall discuss any significant industry trends
25 that may affect the operations of the Facility.
26
- 27 (e) Monitoring Report: A list and description of all significant monitoring and
28 mitigation activities performed during the previous year in accordance with the
29 terms and conditions of this Amended Site Certificate, a summary of the results of
30 those activities, and a discussion of any significant changes to any monitoring or
31 mitigation program, including the reason for any such changes.
32
- 33 (f) Compliance Report: The Certificate Holder shall report all instances where it has
34 not complied with a condition of this Amended Site Certificate. For ease of
35 review, this section of the report shall use numbered subparagraphs corresponding
36 to the applicable sections of this Amended Site Certificate.
37
- 38 (g) Facility Modification Report: The report shall summarize changes to the Facility
39 which the Certificate Holder has determined do not require an amendment to this
40 Amended Site Certificate in accordance with OAR 345-27-050.
41
- 42 (3) Schedule Modification (OAR 345-26-100)
43

44 The Certificate Holder shall promptly notify the Department of any changes in major milestones
45 for construction, decommissioning, operation, or retirement schedules. Major milestones shall be
46 as identified by the Certificate Holder in its construction, retirement or decommissioning plan.

1
2 (4) Correspondence With Other State or Federal Agencies (OAR 345-26-105)
3

4 The Certificate Holder and the Department shall exchange with other state or federal agencies
5 copies of all correspondence related to compliance with statutes, rules and local ordinances on
6 which the Council determined compliance, except for material withheld from public disclosure
7 under state or federal law or under Council rules. Abstracts of reports may be submitted in place
8 of full reports; however, full copies of abstracted reports must be provided at the request of the
9 Department.

10
11 (5) Construction Report (OAR 345-26-125)
12

13 During construction of the Energy Facility and related or supporting facilities, the Certificate
14 Holder shall submit semiannual Construction Progress Reports to the Council. Any significant
15 changes to major milestones for construction shall be highlighted in the report.
16

17 (6) Notification of Incidents (OAR 345-26-170)
18

19 The Certificate Holder shall notify the Department within 72 hours of any occurrence involving
20 the Facility if:

- 21
22 (a) There is an attempt by anyone to interfere with its safe operation;
23
24 (b) A natural event such as an earthquake, flood, tsunami or tornado, or a human-
25 caused event such as a fire or explosion affects or threatens to affect the public
26 health and safety or the environment;
27
28 (c) There is any fatal injury at the Facility.
29

30 **IV. CONDITIONS PURSUANT TO COUNCIL STATUTORY AUTHORITY**
31

32 The following conditions are presented by subject area only as an aide to their use and shall
33 apply and should be read together. Where appropriate, citations in parentheses show the basis of
34 the condition.
35

36 **IV. A. General Conditions**
37

38 IV. A. 1. The conditions in section IV.A.1 are based on statements that the applicant made in its
39 Application for Site Certificate (ASC) (November 6, 1996), its Requests for Amendments
40 (RFAs) Nos. 1 & 2 (October 6, 1997) or in other correspondence with the Department.
41

- 42 (1) The general arrangement of the KCP Energy Facility shall be substantially similar to that
43 shown in the ASC, Figure B-3, or in the RFA No. 1, Figure B-3, which are attached as
44 Appendix A to this Amended Site Certificate.
45

- 1 (2) The Energy Facility and its related or supporting facilities shall be located substantially
2 as shown in the ASC, Figure C-1 which is attached as Appendix B to this Amended Site
3 Certificate.
4
- 5 (3) The KCP fuel oil storage tank shall be surrounded by a secondary containment structure
6 with a barrier of sufficient non- permeability and sufficient volume to contain the full
7 contents of the tank and precipitation and comply with the applicable provisions of 40
8 CFR Part 112 and OAR chapter 340, division 47. The tank secondary containment area
9 shall have a fire protection system that complies with applicable NFPA standards for fuel
10 oil storage. (ASC, B-2, F-6)
11
- 12 (4) The Energy Facility shall include a fire protection pump house and a fire suppression
13 system. (ASC, B-2)
14
- 15 (5) KCP tanks which store hazardous substances as defined in ORS chapter 465 shall have
16 secondary containment with a barrier of sufficient non-permeability and sufficient
17 volume to comply with applicable federal and Oregon laws pertaining to the storage of
18 such hazardous substances. (ASC, B-2)
19
- 20 (6) The Energy Facility structures shall be architecturally designed to be visually compatible
21 with the surrounding area and the Energy Facility site shall including landscaping. (ASC,
22 B-3)
23
- 24 (7) The combustion turbines shall be surrounded with acoustically insulated enclosures to
25 reduce noise levels to acceptable occupational exposure levels and to provide
26 containment for automatic fire suppression equipment. (ASC, B-5)
27
- 28 (8) The steam turbine condenser system shall include a non- condensable gas removal system
29 and shall be designed to condense all steam from the HRSG(s) in the event a steam
30 turbine trip occurs. (ASC, B-6)
31
- 32 (9) The condenser system shall include redundant condensate pumping capability
33 substantially similar to that described in the ASC, page B-6 which is in Appendix C to
34 this Amended Site Certificate.
35
- 36 (10) The cooling tower shall include a fire protection system in accordance with applicable
37 NFPA standards pertaining to the specific materials selected for the cooling tower. (ASC,
38 B-6)
39
- 40 (11) The cooling tower makeup water pumping station shall include redundant pumping
41 capability substantially similar to that described in the ASC, page B-7 which is in
42 Appendix C to this Amended Site Certificate.
43
- 44 (12) The boiler and cooling tower chemical treatment storage areas shall include secondary
45 containment with a barrier of sufficient non-permeability and sufficient volume to
46 contain any chemical from spills or tank failures. (ASC, B-7, F-4)

- 1
2 (13) The Energy Facility shall have a state-of-the-art, integrated microprocessor-based control
3 system substantially similar to that described in the ASC, page B-7 which is in Appendix
4 C to this Amended Site Certificate.
5
6 (14) The Energy Facility control system shall include an uninterruptible power supply to
7 provide emergency power to critical equipment in the event of a power outage. (ASC, B-
8 8) The KCP shall include an on-site emergency diesel generator. Except for brief periods
9 for testing or maintenance, the emergency diesel generator may operate only to provide
10 on-site power during conditions when the Energy Facility is not operating and power is
11 not otherwise available. The emergency diesel generator shall have a capacity no greater
12 than 500 net kilowatts.
13
14 (15) DELETED (This Condition related to the 230-kV transmission line option, and since the
15 500-kV electrical interconnection option was used instead, this condition is no longer
16 relevant.)
17
18 (16) The Energy Facility shall include a fire protection system substantially similar to that
19 described in the ASC, page B-9, which is in Appendix C to this Amended Site
20 Certificate.
21
22 (17) Regenerant wastewater from mixed bed demineralizers shall be neutralized and combined
23 with cooling tower blowdown and discharged to the City's municipal wastewater system
24 substantially as described in the ASC, page B-9, which is in Appendix C to this Amended
25 Site Certificate.
26
27 (18) The Energy Facility shall include a stormwater drainage system substantially as described
28 in the ASC, page B-10, or in the RFA No. 1, page B-5, and the ASC, page V-3, which are
29 in Appendix C to this Amended Site Certificate.
30
31 (19) KCP hazardous solid wastes shall be managed in accordance with applicable local and
32 state regulatory standards and requirements and substantially as described in the ASC,
33 page B-10, which is in Appendix C to this Amended Site Certificate.
34
35 (20) KCP non-hazardous solid wastes shall be managed substantially as described in the ASC,
36 page B-10, which is in Appendix C to this Amended Site Certificate.
37
38 (21) Stormwater collected at the Energy Facility Site, but away from equipment locations,
39 shall be discharged to an on-site stormwater retention/evaporation pond. (ASC, F-3)
40
41 (22) The wastewater pumping station at the Energy Facility Site shall include redundant
42 pumping capability substantially as described in the ASC, page B-10 which is in
43 Appendix C to this Amended Site Certificate.
44
45 (23) The Facility shall comply with the list of applicable federal, state and local safety codes
46 and standards, as described in the ASC, pages B-13 and 14 (which are in Appendix C to

1 this Amended Site Certificate), as modified by the comments of the Building Codes
2 Division Agency Report, dated December 9, 1996, InterDepartment Memo dated
3 December 13, 1996 from R. Tamerhoulet to M. Long, which is in Appendix D to this
4 Amended Site Certificate.

5
6 (24) KCP construction-related waste materials shall be managed and disposed substantially as
7 described in the ASC, pages F-1 and 2, which are in Appendix C to this Amended Site
8 Certificate.

9
10 (25) The KCP shall recycle to the extent reasonably practicable spent lube oil and hydraulic
11 fluids from major equipment. (ASC, F-4)

12 (26) All Energy Facility Site area drains which are reasonably likely to contain oil
13 contamination shall be routed to the oil/water separator. Skimmed oil from the separator
14 shall be provided to a licensed oil recycler. (ASC, F-4)

15
16 (27) The KCP shall provide a concrete basin at each large electrical transformer to capture any
17 oil that might spill during a transformer failure or maintenance operation. Spilled oil and
18 replaced oil shall be recycled to the extent reasonably practicable. (ASC, F-4)

19
20 (28) The Energy Facility site natural gas fuel system shall be designed constructed and
21 operated substantially as described in the ASC, page F-6, which is in Appendix C to this
22 Amended Site Certificate.

23
24 (29) The KCP shall manage non-fuel hazardous substances and shall include facilities
25 substantially as described in the ASC, pages F-6 and F-7, which are in Appendix C to this
26 Amended Site Certificate.

27
28 (30) The KCP shall meet or exceed the safety and health requirements listed in the ASC, page
29 F-7, which is in Appendix C to this Amended Site Certificate.

30
31 (31) Before commencing construction, the City shall obtain an NPDES General Permit 1200-
32 C for construction of the Facility. (ASC, M-1)

33
34 (32) Before commencing construction, the City shall obtain an amendment to its NPDES
35 permit for the SSWTP to allow the reuse of effluent for the KCP. (ASC, M-1).

36
37 (33) Before commencing construction, the City shall obtain an Air Contaminant Discharge
38 Permit for the Facility.

39
40 (34) DELETED (This Condition related to the 230-kV transmission line option, and since the
41 500-kV electrical interconnection option was used instead, this condition is no longer
42 relevant.)

43
44 (35) Ground disturbance from construction of the KCP shall be limited to: the Energy Facility
45 Site; a temporary construction parking and laydown area near the Energy Facility Site
46 substantially as shown in the ASC, Fig. X-2, or in the RFA No. 1, Fig. X-1 (which are in

1 Appendix C to this Amended Site Certificate); transmission line pole/structures and
2 associated access roads, pulling areas, and construction areas; and a 40-foot width
3 (approximate) for pipeline burial and construction equipment access which shall be
4 located within construction rights-of-way. (ASC, N-27 and X-1)
5

6 (36) The Facility shall not construct or use an underground storage tank. (RMI 12/20/96 letter
7 to the Department)
8

9 IV. A. 2. The conditions in section IV.A.2 are not based on representations that the applicant
10 made in its ASC, its RFAs, or in other correspondence with the Department.
11

12 (37) The KCP may burn only natural gas, as primary fuel, and low-sulfur oil as a backup fuel
13 for the auxiliary boiler. The KCP may burn only low-sulfur fuel in the emergency diesel
14 generator.
15

16 (38) Construction of the Facility shall commence on or before March 5, 2000 (which is 30
17 months from the date the original Site Certificate was executed).
18

19 (39) Construction of the Facility shall be completed on or before September 5, 2002 (which is
20 five years from the date the original Site Certificate was executed). Construction
21 completion of the Facility shall be the commercial operation date of the Facility.
22

23 (40) The Council may grant an extension of the construction commencement date and the
24 construction completion date in accordance with OAR 345-27-030, or any successor rule,
25 in effect at the time the request for extension is requested.
26

27 (41) Klamath Energy shall provide to the Department as part of any request to amend the
28 Amended Site Certificate a list of the names and mailing addresses of all owners of
29 record, as shown on the most recent property tax assessment roll, of property located
30 within the Site, and within 100 feet of the Site where the Site is within an urban growth
31 boundary, and within 250 feet of the Site where the Site is outside an urban growth
32 boundary and not within a farm or forest zone, and within 500 feet of the Site where the
33 Site is within a farm or forest zone. "Site" as used herein means all land upon which the
34 Facility is located and includes the Energy Facility Site and all land upon which related
35 or supporting facilities are located.
36

37 (42) Klamath Energy or its authorized representative shall report to the Department within 72
38 hours of discovery any material violation of any condition of the Amended Site
39 Certificate by Klamath Energy or any of its contractors, subcontractors or agents.
40 Klamath Energy or its authorized representative shall report to the Department within 24
41 hours of discovery if Klamath Energy or any of its contractors, subcontractors or agents
42 creates any condition by construction or operation of the Facility that endangers the
43 public health and safety.
44

45 **IV. B. 500-MW Exemption and Carbon Dioxide Emissions Standard**

46

1 In interpreting the conditions in section IV.B of this Amended Site Certificate any ambiguity will
2 be clarified by reference to, and in the following priority, this Amended Site Certificate, the Final
3 Order granted on April 17, 1998 for the Amended Site Certificate, the Final Order granted on
4 August 15, 1997 for the ASC, the 500 Megawatt Exemption Final Order, and if necessary, the
5 record of the proceedings which led to those Orders. For these conditions, the index by which the
6 future value of money shall be converted to 1996 or 1998 dollars shall be the Implicit Price
7 Deflator for the Gross Domestic Product as published by the U.S. Bureau of Economic Analysis
8 of the Department of Commerce or a successor agency. These values are published annually
9 each February in the "Economic Report of the President".

10
11 (1) Klamath Energy shall make available from the Energy Facility to off-site industrial use
12 the steam energy equivalent of at least 200,000 pounds of steam per hour at 375 psig and
13 455 degrees F (which is equal to 242.8 MMBtu/hr) on an annual average basis. The
14 amount, temperature and pressure of steam supplied shall be measured at the point of
15 interconnection of the Energy Facility with its off-site industrial use. Provided that
16 Klamath Energy is the Certificate Holder, Klamath Energy shall report this information
17 to the Council on an annual basis for each year from calendar year 2007 through calendar
18 year 2031. Klamath Energy shall calculate the steam energy equivalent of the steam it
19 makes available to off-site industrial use using accepted values for the energy content of
20 the steam, such as those found in steam tables published by the American Society of
21 Mechanical Engineers.

22
23 KCP's off-site industrial use shall be at least the steam energy equivalent of 200,000
24 pounds of steam per hour at 375 psig and 455 degrees F on a five year basis, measured in
25 discrete, successive five-year periods. "Use" of the steam means that the steam is used to
26 displace another source of carbon dioxide emissions from fossil fuels that would have
27 otherwise occurred or continued to occur. At the end of each five year period following
28 commercial operation, KCP shall determine and report to the Council the hourly average
29 steam volume, pressure and temperature delivered to off-site industrial use for the
30 applicable five year period after the effective date of this Amended Site Certificate.
31 Should the hourly average steam used by KCP's off-site industrial use be less than the
32 steam energy equivalent of 200,000 pounds per hour at 375 psig and 455°F, KCP shall
33 develop, present to the Council for approval, and implement a plan to make available and
34 sell to another steam use the steam energy equivalent not used by KCP's existing off-site
35 industrial use at the same or similar cost incentive as provided to KCP's existing off-site
36 industrial use. If within twelve months after Council approval, KCP has not contracted to
37 make available and sell to another steam user the steam energy equivalent not used by
38 KCP's existing off-site industrial use, then KCP shall develop, present to the Council for
39 approval, and implement a program to offset an amount of CO₂, NO_x or PM-10, or any
40 combination thereof, equivalent to the monetized incremental emissions resulting from
41 the existing off-site industrial use of less than the steam energy equivalent of an average
42 of 200,000 pounds of steam per hour at 375 psig and 455°F. In any event, KCP shall
43 offset an amount equivalent to the monetized incremental emissions resulting from the
44 existing off-site industrial use of less than the steam energy equivalent of an average of
45 200,000 pounds of steam per hour at 375 psig and 455°F, measured on a five year basis,

1 for 30 years. Calculations of monetized emissions shall use the same methodology and
2 monetary values of emissions employed in the 500-megawatt exemption Final Order.
3

4 (2) KCP shall provide to the Council an executed steam sales contract with its steam host
5 before beginning construction.
6

7 (3) Before commencing construction, KCP shall establish an interest bearing escrow account
8 in the amount of \$3.1 million, in 1998 dollars, for implementation of the offset portfolio
9 described in its Request for Exemption. Any interest accrued in the account shall be used
10 to implement the offset portfolio.
11

12 (4) Before commencing construction, KCP shall commence good faith implementation of its
13 offset portfolio described in its Request for Exemption.
14

15 (5) If the Facility does not achieve the milestone of commercial operation, KCP's obligation
16 to further fund and implement the offset portfolio shall end and any remaining funds shall
17 revert to KCP. The Facility will be deemed to achieve the milestone of commercial
18 operation when KCP accepts the Facility as available for commercial operation from the
19 Facility's constructor.
20

21 (6) Before commencing construction, KCP shall make available a contingency account in the
22 amount of \$300,000 in 1996 dollars. The funds shall be placed in an interest bearing
23 account, and accrued interest shall be available to address contingencies as provided in
24 this condition. The contingency account may be drawn upon in years 10, 20 and 30 to
25 provide additional funding in the event the mitigation portfolio is not meeting
26 projections, within 10 percent. In the event actual CO₂ mitigation is less than 90 percent
27 of projected CO₂ offsets after 10, 20 and 30 years, and if cogeneration or other offsets do
28 not compensate for this shortfall (including offsets resulting from reduced methane
29 emissions based on the then-prevailing IPCC CH₄-CO₂ equivalency factor), KCP shall
30 use the contingency fund to implement additional CO₂ offsets. The amount used shall be
31 sufficient to make up the deficiencies in meeting projected CO₂ offsets to the extent
32 possible with the available contingency funds. The contingency fund available in years
33 20 and 30 shall comprise the fund less funding draws in years 10 and 20, respectively.
34 Any unused portion of the fund shall revert to the KCP after year 30.
35

36 (7) Any financial returns, including the return of capital investment along with accrued
37 interest, associated with implementation of KCP's carbon offset portfolio during the first
38 30 years shall be reinvested in carbon offset portfolio activities as proposed in the request
39 for exemption. At year 30, KCP shall consult with the Council regarding the disposition
40 of any financial returns after year 30. At the Council's discretion, these returns may either
41 be invested in additional CO₂ mitigation activities or may be redirected to other
42 environmental purposes.
43

44 (8) On implementation of its offset portfolio, KCP shall undertake the offset monitoring and
45 verification programs described in its Request for Exemption. KCP will make available

1 up to \$50,000 per year, in 1998 dollars, for these monitoring and verification programs.
2 KCP shall use the monitoring and verification funds to provide monitoring and
3 verification adequate to meet the requirements of the conditions of this Amended Site
4 Certificate.

5
6 (9) KCP shall make its offset portfolio financial records available for auditing by the Council
7 or a designated party for the life of the Facility, provided that the cost of such auditing
8 shall be paid by the Council.
9

10 (10) Based on the monitoring and verification programs in Condition IV.B.(8), KCP shall
11 report as follows: KCP shall annually report offset performance to the Council and the U.
12 S. Department of Energy Section 1605(b) greenhouse gas registry, for 30 years. Every
13 five years for 30 years KCP shall report to the Council offset portfolio performance,
14 associated CO₂ and methane benefits, and explain changes from the offset benefits
15 projected in the Council's analysis of KCP's request for exemption. KCP shall report,
16 among other things, actual or estimated carbon dioxide offsets achieved, the quantity and
17 type of each offset measure, and the expenditure of funds for each type of measure in the
18 offset portfolio.
19

20 (11) KCP shall consult with the Council on an ongoing basis regarding portfolio emphasis and
21 performance. As requested by the Council, and to the extent made possible by in-place
22 agreements, KCP shall reallocate available funds among its portfolio or other projects
23 requested by the Council.
24

25 (12) Subject to potential reallocation of funds described in Condition IV.B.(11), of the \$3.1
26 million in the escrow fund, \$0.5 million shall fund the Solar Electric Light Fund (SELF),
27 \$1.5 million shall fund the Oregon Forest Resources Trust (FAT), \$1.0 million shall fund
28 new projects to generate electricity with otherwise waste methane, and \$0.1 million shall
29 fund geothermal heating projects in Klamath Falls, Oregon, as described in the Request
30 for Exemption.
31

32 (13) KCP shall commit \$1.0 million of the \$3.1 million escrow fund to fund new projects to
33 generate electricity with otherwise waste methane from sewage treatment plants and coal
34 mines. The projects shall be administered by Northwest Fuel Development, Inc., or an
35 equivalent contractor, at KCP's discretion. Net revenues, which are total revenues less
36 operating costs, from the operation of each electrical generation Facility shall, for a
37 period of ten years, be returned to a Revolving Investment Fund (IF) established by KCP.
38 KCP shall structure the IF so that net revenues from each installation financed by KCP's
39 original capital investment will be used to finance installation of additional sewage
40 treatment plant and coal mine methane generating facilities for a period of ten years as
41 described in the Request for Exemption. The IF shall be structured so that KCP (or the IF
42 manager) will monitor performance of the contractor and the installations, track revenues
43 and offsets attributable to IF-financed systems, and ensure revenues will, for a period of
44 thirty years, be used to finance installation of additional generating equipment. KCP (or
45 the IF manager) shall track the number of installations attributable to the IF and report
46 regularly to the Council on the performance of the IF. KCP shall establish management

1 or contractual controls of the contractor to provide long-term control of the Fund and the
2 methane project.

- 3
- 4 (14) KCP shall commit \$0.5 million of the \$3.1 million escrow fund into a Revolving
5 Investment Fund for photovoltaics as described in the Request for Exemption. The Fund
6 shall be structured to provide capital to PV companies identified by the SELF. The solar
7 projects shall be in India, Sri Lanka or China unless KCP demonstrates to the Council a
8 better location for the PV projects. KCP shall structure the Fund so that, as revenues from
9 the systems financed by KCP's working capital come into the companies, those revenues
10 will be used to finance installation of additional PV systems. The Fund shall be structured
11 so that SELF (or the Fund manager) shall monitor performance of the companies, track
12 the revenues attributable to Fund-financed systems, and ensure those revenues will be
13 used to finance installation of additional PV systems. SELF (or the Fund manager) shall
14 track the number of PV systems financed by the IF and report regularly to KCP on the
15 performance of the IF. KCP shall establish management or contractual controls of the
16 Fund and the PV firms to provide long-term control of the Fund and the PV project.
17
- 18 (15) KCP shall commit \$0.1 million of the \$3.1 million escrow fund to fund geothermal
19 heating projects in Klamath Falls, Oregon. KCP shall establish a revolving credit fund
20 that will loan money to assist in the hookup of buildings in downtown Klamath Falls to
21 the geothermal heating system. The loans shall be structured for repayment to the fund
22 within three years. Repaid loan amounts shall be used to fund hook up of additional
23 buildings to the geothermal heating system. The fund shall be structured so that KCP or
24 the City of Klamath Falls will track revenues and offsets attributable to the fund and
25 ensure that repaid loan amounts are used to hook up additional buildings to the
26 geothermal heating systems.
27
- 28 (16) KCP shall commit \$1.5 million of the \$3.1 million to the FAT. KCP shall pursue new
29 funding to match these funds on a 3:1 basis.
30
- 31 (17) KCP shall report as "matching funds" under the FAT proposal only those funds for which
32 the funding entity does not claim, and certifies that it will not claim, offset credit.
33
- 34 (18) FAT funds attributed to KCP's offset proposal shall be used to plant Site Class II lands
35 for the first 6,250 acres.
36
- 37 (19) The Council shall hold in trust for KCP all CO2 credits, including CO2 credits submitted
38 for inclusion in the Section 1605(b) database, that KCP receives from Project offsets. The
39 credits shall be available for use by KCP. The credits shall not be sold.
40
- 41 (20) The annual water use by the Facility shall meet the following requirements:
42
- 43 (a) The Facility shall not use more than 160 gallons per minute (gpm) on an annual
44 average basis (8,760 hours) from sources other than the SSWTP effluent during
45 all times when the SSWTP is permitted to deliver effluent to the Facility. This
46 limit shall not include water supplied as steam to the steam host.

1
2 (b) All other water used by the Facility shall be effluent from the SSWTP, except
3 when the SSWTP is not allowed to deliver effluent to the Facility. During such
4 times the Facility shall use only storm water collected on the Site, or in the event
5 storm water is not available, another temporary source of backup water approved
6 by the Council.
7

8 (c) Facility wastewater flows shall all be delivered to a sanitary sewer for delivery to
9 the SSWTP. Should the City modify its SSWTP NPDES permit to allow
10 alternative wastewater treatment, disposal, and/or reuse, the wastewater will be
11 returned to the City in compliance with the then prevailing conditions of the City
12 NPDES permit in effect at the time.
13

14 (21) Before beginning construction, KCP shall provide to the Council the plant performance
15 guarantee from the executed contracts for the design and construction of the Facility
16 showing a net full power heat rate of no greater than 6795 Btu per kWh (HHV) and
17 showing the expected nominal electric generating capacity of the Facility at average
18 annual conditions with no steam load and using natural gas as the fuel, which shall
19 include liquidated damages provisions adequate to enforce the guarantee. KCP shall, as
20 part of the post-construction completion compliance status certification report, provide
21 capacity and heat rate performance test data showing that the nominal electric generating
22 capacity of the Energy Facility is no more than 500 MW and that the heat rate is no more
23 than 6795 Btu per kWh (HHV) with no steam load and using natural gas as the fuel.
24

25 (22) Within two months after the completion of the first full year of commercial operation of
26 the Energy Facility, KCP shall report to the Council the Energy Facility's net full power
27 heat rate as determined by a 100 hour test. Such test will be completed within one year of
28 commercial operation of the Energy Facility (Year One Test). Based on such test KCP
29 shall certify the nominal electric generating capacity (Year One Capacity) and the net full
30 power heat rate (Year One Heat Rate) of the Energy Facility on a new and clean basis, as
31 defined in ORS 469.503(2)(e)(G). The net full power heat rate shall be measured as the
32 total fuel input divided by the net kWh production over the 100 hour test period, adjusted
33 for difference between the actual ambient Site conditions and average annual conditions.
34 If the adjusted net full power new and clean heat rate is greater than the Target Heat Rate
35 of 6,795 Btu (HHV) per kWh with no steam supplied to off-site industrial use and natural
36 gas as the fuel or 7,212 Btu (HHV) per kWh for 200,000 pounds of steam per hour
37 exported and natural gas as the fuel, or a linear interpolation or extrapolation of these
38 values (at average annual ambient conditions based on the steam energy equivalent of
39 steam at a pressure of 375 pounds per square inch gauge and a temperature of 455
40 degrees fahrenheit, in each case measured at the point of interconnection of the Energy
41 Facility with KCP's off-site industrial use), KCP shall perform a second 100 hour test no
42 later than one year following the completion of the first 100 hours test. If, following the
43 second 100 hour test, the net full power heat rate exceeds the adjusted new full power
44 heat rate just described, then KCP shall develop, present to the Council for approval, and
45 implement, a program to offset the incremental CO₂ emissions resulting from the higher
46 heat rate. This requirement to offset the incremental CO₂ emissions resulting from the

1 higher heat rate determined from the second 100 hour test shall only apply to the first 318
2 MW of nominal electric generating capacity. The higher heat rate demonstrated by the
3 second 100 hour test shall then become the Target Heat Rate.
4

5 (23) KCP shall, for each calendar year following the year in which the 100-hour test described
6 above is completed, certify to the Council, based on a 100-hour test conducted as
7 described in Condition IV.B.(22) that the net full power heat rate is no greater than three
8 percent above the Target Heat Rate. In the event that KCP fails to make such
9 certification, within sixty days following the end of each calendar year, KCP shall, at its
10 option, either:

11
12 (a) Within 17 months, implement corrective measures to achieve a net full power
13 heat rate of not more than one and one-half percent greater than the heat rate
14 (based upon a 100-hour heat rate test as described in Condition IV.B.(22)); or
15

16 (b) Develop, present to the Council for approval, and implement, a program to offset
17 the incremental CO₂ emissions resulting from the new, higher heat rate in which
18 case the new, higher heat rate shall become the Target Heat Rate. This
19 requirement to offset the incremental CO₂ emissions resulting from the new,
20 higher heat rate shall only apply to the first 318 MW of nominal electric
21 generating capacity.
22

23 (24) KCP shall use the following methodology for calculating the offset funds and the
24 selection and contracting funds (monetary path payment requirement) it must make
25 available to the qualified organization under ORS 469.503(2)(d)(A). KCP shall use the
26 contracted design parameters reported under Condition IV.B.(21) to calculate the
27 estimated monetary path payment requirement. KCP shall use the Year One Capacity and
28 the Year One Heat Rate reported under Condition IV.B.(22) to calculate whether it owes
29 additional monetary path payments.
30

31 (a) KCP shall first determine the incremental capacity by subtracting 318 MW from
32 the nominal electric generating capacity of the Facility with no steam load (using
33 the capacity calculated from the contracted design parameters reported under
34 Condition IV.B.(21) or the Year One Capacity reported under Condition
35 IV.B.(22));
36

37 (b) KCP shall multiply the heat rate calculated from the contracted design parameters
38 reported under Condition IV.B.(21) or the Year One Heat Rate reported under
39 Condition IV.B.(22) by the carbon dioxide emission factor for natural gas
40 (0.000117 lbs. CO₂/Btu) to calculate the carbon dioxide emission rate (lbs.
41 CO₂/kWh);
42

43 (c) KCP shall subtract the carbon dioxide standard of 0.7 lbs. CO₂/kWh from the
44 carbon dioxide emission rate to calculate the excess carbon dioxide emission rate
45 (lbs CO₂/ kWh);
46

- 1 (d) KCP shall multiply the incremental capacity by 8,760 hours to determine the
2 annual nominal energy for the plant (kWh). KCP shall then multiply the annual
3 nominal energy by the excess CO₂ emission rate, then multiply that product by 30
4 years. It shall then divide that product by 2,000 pounds per ton to calculate total
5 tons of excess CO₂ emissions resulting from the incremental capacity for the
6 deemed life of the plant;
7
- 8 (e) KCP shall multiply the total tons of excess carbon dioxide emissions by \$0.57 per
9 ton of CO₂ to determine the sub-total for the estimated or actual offset funds;
10
- 11 (f) KCP shall subtract \$500,000 from the offset funds subtotal; then multiply the
12 remaining amount by 4.286 percent; then add \$50,000 to that product to
13 determine the estimated or actual selection and contracting funds sub-total;
14
- 15 (g) When KCP submits the Year One Test report required in Condition IV.B.22, KCP
16 shall increase its payments to the respective escrow accounts for offset funds and
17 selection and contracting funds if the calculation of the actual amounts of offset
18 funds and selection and contracting funds due exceeds the amounts of those funds
19 that KCP had deposited to the respective escrow accounts prior to commencing
20 construction.
21

22 KCP shall make the appropriate calculations and increase its payments if
23 necessary within 45 days of filing its Year One Test report with the Council.
24

25 In no case shall KCP receive a refund from the escrow accounts or from the
26 Oregon Climate Trust based on the calculations made using the Year One
27 Capacity to determine the actual incremental capacity and using the Year One
28 Heat Rate.
29

30 (25) KCP shall establish and maintain separate escrow accounts for the offset funds and the
31 selection and contracting funds.
32

- 33 (a) KCP shall deposit the estimated offset funds and estimated selection and
34 contracting funds in 1998 dollars, calculated pursuant to Condition IV.B.(24), into
35 the escrow accounts prior to commencing construction. KCP or its agent shall
36 disburse the funds to the Oregon Climate Trust for use as specified in ORS
37 469.503(2)(d)(A).
38
- 39 (b) KCP shall deposit any additional funds, in 1998 dollars, into the appropriate
40 escrow accounts, if required under Condition IV.B.(24)(g), within 45 days of
41 filing its Year One Test report with the Council.
42
- 43 (c) The portion of any interest accruing in either escrow account up to the time of
44 disbursement of funds to the Oregon Climate Trust that is equivalent to the 1998
45 dollar index adjustment (as described in the introduction to Section IV.B. of the
46 Amended Site Certificate) shall be for the benefit of the Oregon Climate Trust

1 and shall be disbursed to the Oregon Climate Trust for use as specified in ORS
2 469.503(2)(d)(A). Any remaining interest that exceeds the 1998 dollar adjustment
3 at the time of disbursement of funds to the Oregon Climate Trust shall be
4 disbursed to the KCP upon its request.
5

- 6 (26) The combustion turbine units shall be fueled solely with natural gas or with synthetic gas
7 with a carbon content per MMBtu no greater than natural gas. This fuel limitation does
8 not apply to the use of oil in the auxiliary boiler or the emergency diesel generator.
9
- 10 (27) Other than depositing the offset payment funds and selection and contracting funds
11 provided in Condition IV.B.(25), KCP shall have no obligation with regards to offsets for
12 the nominal incremental generating capacity of the Project in excess of 318 MW, nor
13 shall any nonperformance, negligence or misconduct on the part of the Oregon Climate
14 Trust be a basis for revocation of the Amended Site Certificate or any other enforcement
15 action by the Council with respect to the City.
16

17 **IV. C. Organizational, Managerial and Technical Expertise**

- 18
- 19 (1) The City shall retain a qualified firm or firms to assist it in developing, constructing and
20 operating the KCP as described in this order. For operations after the transfer of site
21 certificate from the City to Klamath Energy, the Council has found that Klamath Energy
22 meets the Organization Expertise Standard. [Amendment #3]
23
- 24 (2) The City shall promptly notify the Council if for any reason Pacific Klamath Energy, Inc.
25 (PKE), or its affiliates, does not provide the services to develop, construct and operate the
26 KCP described in this order.
27
- 28 (3) The City shall retain a fully-qualified engineering, procurement and construction (EPC)
29 firm to construct the KCP.
30
- 31 (4) Prior to construction, the City shall identify for the Council the EPC contractor chosen to
32 construct the Facility. Prior to commercial operation, the City shall identify for the
33 Council the contractor chosen to operate the Facility. The City shall report to the Council
34 any change in EPC contractor or operator.
35
- 36 (5) Any matter of non-compliance under this Amended Site Certificate shall be the
37 responsibility of Klamath Energy. Any notice of violation issued will be issued to
38 Klamath Energy. Any civil penalties levied shall be levied on Klamath Energy.
39 [Amendment #3]
40
- 41 (6) The City shall contractually require the EPC contractor and all independent contractors
42 and subcontractors involved in the construction and operation of the Facility to comply
43 with all applicable laws and regulations and with the terms and conditions of the
44 Amended Site Certificate. After transfer of the Site Certificate to Klamath Energy,
45 Klamath Energy shall require independent contractors and subcontractors involved in the
46 operation of the Facility to comply with all applicable laws and regulations and with the

1 terms and conditions of the Amended Site Certificate. Such contractual provision shall
2 not operate to relieve Klamath Energy of responsibility under the Amended Site
3 Certificate. [Amendment #3]
4

5 (7) The City may not begin to construct a 500-kV switchyard until PacifiCorp has obtained
6 from Klamath County a conditional use permit to realign the Meridian to Captain Jack
7 500-kV transmission line as described in the Final Order on the Request for Amendment
8 No. 2. [Amendment #2]
9

10 (8) The City may not begin to construct a 500-kV switchyard until the City and PacifiCorp
11 have entered into one or more agreements concerning the 500-kV electrical
12 interconnection of the KCP to the Meridian to Captain Jack 500 kV transmission system
13 and operation of the KCP 500-kV switchyard. [Amendment #2]
14

15 **IV. D. Financial Assurance**

16
17 For Conditions IV.D.(3), IV.D.(4) and IV.D.(5) of this Amended Site Certificate, the index by
18 which the future value of money shall be converted to 1st Quarter 2009 dollars shall be the
19 Implicit Price Deflator for the Gross Domestic Product as published by the U.S. Bureau of
20 Economic Analysis of the Department of Commerce or a successor agency. These values are
21 published annually each February in the "Economic Report of the President".
22

23 (1) For so long as the City owns the KCP, the City will not, without the Council's prior
24 written consent, amend the Bond Indenture in a manner that would prevent the Project
25 from using the Construction Fund or the Reserve and Contingency Fund to pay for
26 termination or decommissioning costs.
27

28 (2) For so long as the City owns the KCP, the City will not, without the Council's prior
29 written consent, amend the Bond Indenture to authorize a Reserve and Contingency Fund
30 Requirement of less than \$2.5 million.
31

32 (3) Klamath Energy or PPM shall maintain a separate fund established to provide for
33 termination or decommissioning costs (the Decommissioning Fund), with such fund
34 allowed to consist of a balance of cash, Investment Securities, and other holdings to be
35 available to pay costs of termination or decommissioning, including Site restoration, of
36 the project. The Decommissioning Amount shall be \$4.511 million in 1st Quarter 2009
37 dollars. [Amendment #4]
38

39 (4) The Decommissioning Fund established under Condition IV.D.(3). may be drawn upon
40 by the KCP for only termination or decommissioning costs, including Site restoration.
41

42 (5) In lieu of funding part or all of the Decommissioning Fund with cash or Investment
43 Securities or other holdings, Klamath Energy may cause a performance and payment
44 bond, surety bond or letter of credit to be delivered to the Council which bond(s) or letter
45 of credit must be reasonably satisfactory to the Department.
46

1 **IV. E. Land Use**

- 2
- 3 (1) The KCP shall mitigate visual impact of the Facility as viewed from Highway 97 by
4 using neutral color schemes and landscaping. (Klamath County Conditional Use Permit
5 29-95, as amended in December 1997)
- 6
- 7 (2) Access to the Energy Facility Site for construction and operation shall be from Highway
8 97 and shall be subject to Oregon Department of Transportation approval. In the event
9 such approval is not obtained and the applicant proposes to access the Energy Facility
10 Site through West Klamath such access shall be subject to hearing and review by the
11 County Land Use Planning Hearings Officer on the limited issue of access only.
12 (Klamath County Conditional Use Permit 29-95, as amended in December 1997) Such
13 review by the Hearings Officer does not eliminate the need for Council review, if
14 otherwise required.
- 15
- 16 (3) Any performed work or construction on Oregon Department of Transportation (ODOT)
17 right-of-way as a result of the KCP shall require application and permits from ODOT.
18 (Klamath County Conditional Use Permit 54-97 and City of Klamath Falls' Conditional
19 Use Permit 6-CUP-96)
- 20
- 21 (4) The KCP shall obtain all necessary permits from the City of Klamath Falls and Klamath
22 County prior to operation and shall comply with all applicable codes and regulations.
23 (City of Klamath Falls' Conditional Use Permit 6-CUP-96)
- 24
- 25 5) Any changes in or alterations to the electric transmission line corridor or alignment on
26 lands within the City of Klamath Falls' jurisdiction shall be approved by the City's
27 Planning Division prior to construction. (City of Klamath Falls' Conditional Use Permit
28 6-CUP-96) Such review by the City Hearings Officer does not eliminate the need for
29 Council review, if otherwise required.
- 30
- 31 (6) The City may not begin to construct a 500-kV switchyard until the City has obtained
32 from Klamath County a conditional use permit to expand the Energy Facility Site as
33 described in the Final Order on the Request for Amendment No. 2. [Amendment #2]
- 34

35 **IV. F. Structural Standard**

- 36
- 37 (1) The KCP shall maintain the stability of the existing fill slopes by ensuring that surface
38 water runoff is controlled and directed away from the slopes and by locating heavy loads
39 and foundations at least 20 feet from the crest of existing fill slopes. (ASC, page G-17,
40 G.1)
- 41
- 42 (2) The KCP shall locate transmission line structures away from rockfall areas or design the
43 structures to withstand rockfalls. (ASC, page G-17, G.1)
- 44

- 1 (3) The foundations of the KCP Energy Facility's structures shall be supported on bedrock
2 or, in areas that are susceptible to settlement, Energy Facility foundations and pipelines
3 shall be placed on engineered fill. (ASC, page G-17, G.2)
4
- 5 (4) Transmission line structure and pipeline locations that could be subject to settling,
6 slumping or liquefaction shall be tested for soil properties prior to structure and pipeline
7 installation.
8
- 9 (5) If methane gas is encountered during construction of the KCP, the KCP shall construct a
10 permeable layer of gravel beneath foundations or pavements to vent methane and prevent
11 the build-up of hazardous quantities of methane. (ASC, page G-18, G.3)
12
- 13 (6) As part of final design, the KCP shall complete the geotechnical work as set forth in the
14 ASC, pages G-18 and 19, with consideration to the comments of DOGAMI in its May 16,
15 and December 2, 1996 letters to the Department which are in Appendix D to this
16 Amended Site Certificate.
17
- 18 (7) The KCP shall conduct a "shake" analysis as part of its further geotechnical work if the
19 Energy Facility is not sited on bedrock. (DOGAMI May 16, 1996 letter to the
20 Department)
21
- 22 (8) The KCP shall provide the completed site-specific geotechnical report, including seismic
23 hazards, to the Department and to DOGAMI as soon as it is available. (DOGAMI May
24 16, and December 2, 1996 letters to the Department)
25
- 26 (9) If the detailed geotechnical work reveals evidence that is not as described in the ASC, the
27 Facility design shall be revised as necessary to comply with applicable Oregon Building
28 Code requirements. If pre-construction seismic analysis reveals features unique to the
29 Energy Facility Site that justify enhanced seismic design, safety structures critical to
30 public health and safety shall be designed in consultation with the Building Codes
31 Division of the Department of Consumer and Business Services (DCBS), subject to
32 approval by the Department. Critical structures include hazardous material storage areas
33 and control rooms.
34
- 35 (10) Except as provided above, the design and construction of the Facility shall be consistent
36 with Seismic Zone 3 requirements, and in compliance with the applicable laws and
37 regulations administered by the DCBS.
38
- 39 (11) During construction and prior to operation of the Facility, the City shall obtain all state
40 and local building permits necessary for the construction and operation of the Facility.
41
- 42 (12) The City shall ensure that the 500-kV switchyard is designed to meet the requirements of
43 the Uniform Building Code, the Oregon Structural Specialty Code, and applicable
44 industry standards, including American Society of Civil Engineers (ASCE) 7-95
45 (Minimum Design Loads for Buildings and Other Structures) and Institute of Electrical
46 and Electronics Engineers (IEEE) Standard 693 (Recommended Practices for Seismic

1 Design of Substations). The City shall ensure that the equipment selected for the 500-kV
2 switchyard conforms to the performance criteria provided in IEEE 693. (Letter dated
3 Sept. 30, 1998 from PKE to OE) [Amendment #2]
4

5 (13) The City shall ensure that additional detailed geotechnical analyses are performed as
6 necessary for the switchyard site prior to final design of the 500-kV switchyard. The City
7 shall ensure that foundations for the 500-kV line termination structures and major
8 switchyard equipment are designed with consideration given to the specific geological
9 conditions including the effects of reasonably anticipated seismic events for the energy
10 facility site. (Letter dated Sept. 30, 1998 from PKE to OE) [Amendment #2]
11

12 (14) The City shall implement an inspection and maintenance program for the 500-kV
13 switchyard. The program shall include scheduled visual inspections of electrical
14 connections, structural components and switchyard apparatus, and periodic testing of
15 breakers, switches and mechanical equipment. The program shall be designed to enable
16 the City or its representative to identify and correct mechanical and structural failures that
17 may have resulted from seismic events, or which could result from reasonably anticipated
18 seismic events for the energy facility site. (Letter dated Sept. 30, 1998 from PKE to OE)
19 [Amendment #2]
20

21 (15) The City shall ensure that the realigned segment of the Meridian to Captain Jack 500-kV
22 transmission line is designed and constructed substantially as described in the third
23 paragraph of Section E.6. of the Final Order for Amendment No. 2. (Letter dated Sept.
24 30, 1998 from PKE to OE) [Amendment #2]
25

26 **IV. G. Retirement and Site Restoration**

27

28 (1) The KCP shall not dispose of hazardous wastes on the Site, store hazardous wastes on the
29 Site for more than 90 days, or dispose of non-hazardous wastes on the Site. Any storage
30 on the Site of non-hazardous wastes shall comply with applicable federal, state and local
31 regulations. (RMI 12/20/96 letter to the Department)
32

33 (2) The KCP shall contain accidental spills at the Energy Facility Site on-site by containment
34 structures and procedures designed to minimize or prevent any off-site releases. (RMI
35 12/13/96 letter to the Department)
36

37 (3) In the event that construction of the Facility is begun but not completed, or the Facility is
38 closed permanently before the end of its useful life, the Site shall be restored to a useful
39 condition.
40

41 **IV. H. Soil Protection**

42

43 (1) During construction of the Facility, the KCP shall manage stormwater runoff in
44 compliance with a NPDES construction permit.
45

- 1 (2) During construction of the Facility the KCP shall minimize erosion by scheduling
2 construction of the Energy Facility, transmission line and pipelines during drier periods
3 to the extent practicable, by properly controlling surface water runoff and by revegetating
4 disturbed areas during and following construction. (ASC, page G-18, G.4 and page N-13,
5 N.5)
6
- 7 (3) During construction of the Facility the KCP shall avoid or control erosion hazards
8 associated with Stukel-Capona loams and Lorella very stony loam by scheduling
9 construction in these soils, to the extent practicable, in drier months, and by using erosion
10 control techniques such as water bars, siltation fences and straw bales during
11 construction. (ASC, page N-13, N.5; RMI 10/9/96 letter to the Department)
12
- 13 (4) During construction of the Facility the KCP shall control the potential for wind erosion in
14 Tweeters silt loam by the use of geotextile blankets and hydroseed mixtures with
15 tackifying agents. The KCP shall control the potential for wind erosion in Tulana silt
16 loam by using wood chips from the Collins facility or other appropriate means. (ASC,
17 page N-12, N.6; RMI 10/9/96 letter to the Department)
18
- 19 (5) The KCP shall develop, in consultation with appropriate agencies, an erosion control plan
20 for construction activities that incorporates Best Management Practices. The KCP shall
21 also develop a post-construction re-vegetation plan. This plan shall address restoration, to
22 the extent practicable, of natural vegetation affected by Facility construction, and shall
23 minimize erosion potential in affected areas over the life of the KCP. The KCP shall
24 develop and implement these plans substantially as described in the ASC, page N-12, and
25 in RMI's 10/9/96 letter to the Department, page 1 which are in Appendix C and Appendix
26 D, respectively, to this Amended Site Certificate.
27
- 28 (6) The KCP shall restore areas disturbed during construction but not required for Facility
29 structures so as to reduce potential for soil erosion from rain or wind.
30
- 31 (7) The KCP shall locate its transmission line structures so as to avoid steeper slopes
32 wherever practicable. (ASC, page G-9; RMI 12/13/96 letter to the Department)
33
- 34 (8) During operation of the Facility, the KCP shall direct stormwater runoff at the Energy
35 Facility Site to an on-site retention-evaporation pond. During operation, the KCP shall
36 not discharge or otherwise release runoff from the Energy Facility Site. If stormwater
37 runoff is used for on-site cooling tower makeup, cooling tower blowdown shall be
38 discharged as wastewater to a sanitary sewer for delivery to the SSWTP.
39
- 40 (9) Access for transmission line and pipelines construction and maintenance shall utilize
41 existing roads wherever practicable and temporary access roads shall only be constructed
42 where there is no existing access road.
43

44 **IV. I. Protected Areas**

45 There are no conditions specifically related to protected areas.
46

1
2 **IV. J. Fish and Wildlife Habitat**
3

- 4 (1) The KCP shall operate its cooling tower system so as to comply with applicable limits for
5 total dissolved solids (TDS) in KCP's industrial wastewater discharge permit, and in no
6 event shall the TDS level in KCP's cooling tower system exceed 3,360 parts per million
7 in the cooling water on an annual average basis.
8
- 9 (2) The KCP shall locate facilities to maximize the use of existing utility corridors and
10 previously disturbed and currently developed areas, whenever feasible. (ASC, page N-12,
11 N.1)
12
- 13 (3) The KCP shall restore areas of native plant communities that are temporarily disturbed
14 during construction to pre-disturbance conditions. (ASC, page N-12, N.2)
15
- 16 (4) The KCP shall mitigate for the permanent loss of Category 3 habitat by creating habitat
17 or restoring lost habitat at a 1:1 ratio to that lost, substantially as described in the ASC,
18 page N-12, which is in Appendix C to this Amended Site Certificate. The KCP shall
19 coordinate these efforts with the ODFW as requested in their December 12, 1996 Agency
20 Report to the Department, page 5 which is in Appendix D to this Amended Site
21 Certificate.
22
- 23 (5) The City shall, as soon as practicable after Project financing, and before the completion
24 of construction, provide the funds necessary, not to exceed \$20,000 in 1998 dollars, to
25 repair the Haymaker Dike located in the ODFW Klamath Wildlife Area. The City shall
26 coordinate this funding with the ODFW [Amendment #2]
27
- 28 (6) The KCP shall manage its discharge of wastewater to a sanitary sewer for delivery to the
29 SSWTP so as to comply with applicable limitations for temperature in the industrial
30 wastewater discharge permit for the KCP, and any related provisions in the Reclaimed
31 Water Use Plan for the KCP as required under the City's SSWTP NPDES permit.
32 (ODFW Agency Report, December 12, 1996; RMI 1/20/97 letter to DEQ)
33
- 34 (7) The KCP shall not disturb the bed or banks of the Klamath River during construction,
35 operation or retirement. No direct water withdrawals from the Klamath River shall occur.
36 The Energy Facility shall not directly discharge wastewater into the Klamath River.
37

38 **IV. K. Threatened and Endangered Species**
39

- 40 (1) The KCP shall manage its consumption of effluent from the SSWTP and its wastewater
41 discharge to a sanitary sewer for delivery to the SSWTP such that the Facility's net
42 consumption of effluent is no more than 3.65 cubic feet per second (1,640 gallons per
43 minute) on an annual average basis (8,760 hours). Net consumption means the difference
44 between the amount of effluent provided by the SSWTP to the KCP and the amount of
45 wastewater discharged to a sanitary sewer for delivery to the SSWTP from the KCP.
46

- 1 (2) The City shall ensure that the realigned segment of the Meridian to Captain Jack 500-kV
2 transmission line incorporates design features to prevent electrocution of raptors, such as
3 those recommended in “Suggested Practices for Raptor Protection on Power Lines: The
4 State of the Art in 1996” (Avian Power Line Interaction Committee. 1996. Edison
5 Electric Institute/Raptor Research Foundation, Washington, D.C.). [Amendment #2]
6

7 **IV. L. Scenic and Aesthetic Values**
8

- 9 (1) The KCP shall paint the Energy Facility in a neutral color to help it blend naturally into
10 the hill to the north. (ASC, page S-6, S.1)
11
12 (2) The KCP shall plant low-maintenance trees such as ponderosa pine, juniper and black
13 cottonwood around the perimeter of the Energy Facility to aid in visually screening the
14 Energy Facility. (ASC, page S-6, S.1)
15
16 (3) The KCP shall locate its transmission line structures so as to reduce their visual impacts.
17 (ASC, page S-6, S.2)
18
19 (4) DELETED (This Condition related to the 230-kV transmission line option, and since the
20 500-kV electrical interconnection option was used instead, this condition is no longer
21 relevant.)
22
23 (5) The KCP shall limit and direct outdoor nighttime lighting to the extent necessary to
24 maintain safe conditions so as to minimize disturbance to the nearby residential area.
25
26 (6) The City shall ensure that the realigned segment of the Meridian to Captain Jack 500-kV
27 transmission line utilizes lattice tower structures with a dull surface to reduce reflectivity.
28 [Amendment #2]
29

30 **IV. M. Historic, Cultural and Archaeological Resources**
31

- 32 (1) The KCP shall design, construct and operate its facilities located on Collins property so
33 as to avoid adverse impact to those qualities of the Weyerhaeuser archaeological site
34 (OR-KL- 40) which make it eligible for listing on the National Register of Historic
35 Places. (ASC, pages T-8, 10, T.3; RMI 10/2/96 letter to the Department)
36
37 (2) Prior to construction of the transmission line and cooling water supply pipeline a
38 qualified individual shall flag the perimeter of each of the three archaeological sites,
39 Cogen 1, Cogen 2 and Cogen 3. The KCP shall design, construct and maintain the
40 transmission line and cooling water supply pipeline so as to avoid disturbance to any of
41 these sites. If disturbance to any of these sites is unavoidable, the City shall obtain the
42 necessary permit from the State Historic Preservation Office prior to beginning any
43 activity that would disturb the site. (RMI 10/2/96 letter to the Department)
44
45 (3) If archaeological sites or objects are found during construction of the KCP or related
46 Project activities, the KCP shall halt earth-disturbing activities in the vicinity of the find.

1 The KCP shall notify the SHPO, the the Department and the Klamath Tribe and a
2 qualified archaeologist shall evaluate the find and recommend appropriate action after
3 consultation with the SHPO, the the Department and the Klamath Tribe. (ASC, page T-
4 10, T.2) The KCP shall not restart work in the affected area until it has complied with the
5 applicable permit requirements administered by the SHPO currently set forth in OAR
6 chapter 736, division 51.
7

- 8 (4) Prior to construction, the KCP shall coordinate with the Klamath Tribes to arrange for
9 Tribal monitors to be present during ground-disturbing activities associated with
10 construction of the KCP. The KCP shall reasonably compensate Tribal monitors.
11 (Klamath Tribes letter to the Department, undated, received by the Department June
12 1996)
13

14 **IV. N. Recreation**

15
16 There are no conditions specifically related to recreation.
17

18 **IV. O. Socio-Economic Impacts**

- 19
20 (1) The KCP shall use water from the City's municipal water supply system to meet its
21 service and potable water requirements and may use water from Collins Product's Well
22 No. 6 to meet make-up water needs. (ASC, pages B-4 and U-4; Fig F-1; Fig B-1)
23 [Amendment #4]
24
25 (2) The City shall coordinate working hours of construction crafts with other industries in the
26 area, to the extent feasible, to minimize traffic congestion. (ASC, page U-6)
27
28 (3) The KCP shall provide an adequate parking area for about 300 vehicles during
29 construction. (ASC, page U-6) The location of this construction parking area shall be on
30 Collins property as shown in the ASC, Fig. X-2, or in the RFA No. 1, Fig. X-1, which are
31 in Appendix C to this Amended Site Certificate.
32
33 (4) Access to the Energy Facility Site during construction and operation shall be from U.S.
34 Highway 97 onto a private road on Collins property as described in the ASC, pages U-6
35 and 7, which are in Appendix C to this Amended Site Certificate.
36
37 (5) Prior to construction of the Energy Facility, the City shall obtain an Approach Road
38 Permit from the Oregon Department of Transportation (ODOT) to connect the
39 construction and operation access road for the Energy Facility Site into U.S. Highway 97
40 at the location described in the ASC, pages U-6 and 7. The City shall be responsible for
41 the costs of any highway improvements required by the ODOT to allow this connection.
42
43 (6) The KCP Energy Facility shall include a fire protection system substantially as described
44 in the ASC, page U-9, which is in Appendix C to this Amended Site Certificate.
45

1 **IV. P. Waste Minimization**

- 2
- 3 (1) Prior to construction of the Facility, the KCP shall develop a solid waste reduction and
4 recycling program for hazardous and non-hazardous solid wastes for construction and
5 operation substantially as described in the ASC, page V-1, which is in Appendix C to this
6 Amended Site Certificate.
7
- 8 (2) The KCP shall reuse or recycle hazardous and non-hazardous solid waste generated
9 during construction to the extent reasonably practicable and substantially as described in
10 the ASC, pages F-1, U-4, and V-1, which are in Appendix C to this Amended Site
11 Certificate.
12
- 13 (3) The KCP shall reuse or recycle hazardous and non-hazardous solid waste generated
14 during operation to the extent reasonably practicable and substantially as described in the
15 ASC, pages U-5, and V-2 and 3, which are in Appendix C to this Amended Site
16 Certificate.
17
- 18 (4) Prior to construction of the Facility, the KCP shall develop a wastewater minimization
19 and reuse plan for construction and operation substantially as described in the ASC, page
20 V-1, which is in Appendix C to this Amended Site Certificate.
21
- 22 (5) The KCP shall minimize and reuse wastewater generated during construction to the
23 extent reasonably practicable.
24
- 25 (6) The KCP shall minimize and reuse wastewater generated during operation to the extent
26 reasonably practicable and substantially as described in the ASC, pages F-2 through 3,
27 and V-3 and 4, which are in Appendix C to this Amended Site Certificate.
28
- 29 (7) During operation, the KCP shall minimize the amount of sanitary wastewater by using
30 water flow restricting devices on bathroom and locker room sinks and showers, and by
31 using low water consumption water closets. (ASC, V-3)
32
- 33 (8) KCP water treatment demineralizers shall use programmable logic controls set to
34 maximize resin efficiency so as to reduce overall water consumption during resin
35 regeneration and backwashing. (ASC, V-3)
36
- 37 (9) KCP HRSG boiler blowdown shall be used as makeup water to the cooling tower. KCP
38 cooling tower blowdown shall be reduced by automating the chemical treatment and
39 blowdown system to allow the cooling tower to operate at the highest practical number of
40 cycles of concentration. (ASC, F-3, V-3)
41
- 42 (10) During operation of the KCP, waste materials shall be contained on the Energy Facility
43 Site, within the Site perimeter fence, and screened from view from the nearby residential
44 area.
45

1 **IV. Q. Noise**

- 2
- 3 (1) The KCP shall restrict construction activities that produce loud noise levels to the hours
4 between 7:00 a.m. and 10:00 p.m. to reduce the potential for annoyance of nearby
5 residences and maintain compliance with applicable DEQ noise requirements. (ASC,
6 page BB-5, BB.2)
- 7
- 8 (2) The KCP shall place its combustion turbines and associated electrical generators, and the
9 steam turbine and associated electrical generator inside an acoustically insulated building.
- 10
- 11 (3) The KCP shall, within six months of the beginning of commercial operation, retain a
12 qualified noise specialist to measure actual noise levels associated with KCP Energy
13 Facility operation, at the nearby residential area and at the nearest edge of the Klamath
14 Wildlife Refuge across the Klamath River, to determine if actual noise levels comply
15 with (are within the levels specified in) applicable noise regulations in OAR 340-35-
16 035(1)(b). If actual noise levels do not comply with applicable DEQ regulations, the KCP
17 shall take those actions necessary to comply with the applicable regulations as soon as
18 practicable.
- 19
- 20 (4) The KCP shall design the HRSG(s) and stack(s) with resonant frequency above the
21 lowest natural frequency of the exhaust from the combustion turbine(s).
- 22
- 23 (5) The KCP shall consult with Klamath County to minimize impacts of construction noise.
- 24
- 25 (6) DELETED (This Condition related to the 230-kV transmission line option, and since the
26 500-kV electrical interconnection option was used instead, this condition is no longer
27 relevant.)
- 28
- 29 (7) The KCP shall specify a cooling tower such that the actual noise levels associated with
30 operation of the KCP comply with the applicable noise regulations in OAR 340-035-
31 035(1)(b).
- 32
- 33 (8) The City shall ensure that the realigned segment of the Meridian to Captain Jack 500-kV
34 transmission line is designed and constructed so as to comply with the applicable noise
35 regulations in OAR 340-35-035(1)(b). [Amendment #2]

36

37 **IV. R. Wetlands**

38

39 There are no conditions specifically related to wetlands.

40

41 **IV. S. Water Rights**

42

43 Pursuant to agreement with Collins Products as the holder of Certificate of Water Right No.
44 48602, the KCP may use water for general industrial use as authorized by Certificate of Water
45 Right No. 48602 and ORS 540.520(9). [Amendment #4]

1 **IV. T. Public Health and Safety**

2
3 (1) The KCP shall design and operate its cooling tower substantially as described in the
4 ASC, Table M-1 on page M-4, or in the RFA No. 1, Table M-1, which are in Appendix C
5 to this Amended Site Certificate.

6
7 (2) The KCP shall monitor, in accordance with its Reclaimed Water Use Plan approved by
8 DEQ, the effluent it receives from the SSWTP for the presence of pathogens. The KCP
9 shall operate its cooling tower water system in accordance with the Reclaimed Water Use
10 Plan and the industrial wastewater discharge permit for the Facility so as to prevent
11 public health hazards from cooling tower drift (aerosols).

12
13 **V. MATTERS NOT ADDRESSED IN OR GOVERNED BY THIS AMENDED SITE**
14 **CERTIFICATE**

15
16 **V. A. Federally-Delegated Programs ORS 469.503(3)**

17
18 The following programs are not within the Council's jurisdiction and are not governed by this
19 Amended Site Certificate because they are federally delegated programs:

20
21 (1) The Air Contaminant Discharge Permit program administered by DEQ, which includes, but
22 is not limited to, the federally delegated new source review requirements of the Clean Air Act
23 and the Prevention of Significant Deterioration (PSD) program. This authority is in ORS Chapter
24 468A; OAR Chapter 340, Divisions 20, 21, 22, 25, and 31;

25
26 (2) The National Pollutant Discharge Elimination System (NPDES) permit program administered
27 by DEQ - Water Quality Division, which regulates and permits stormwater runoff and industrial
28 wastewater discharges to public waters, directly or indirectly through discharge to a local
29 sanitary sewer;

30
31 (3) The program regulating the design, operation, monitoring and removal of underground
32 storage tanks that contain certain toxic and hazardous materials, including petroleum products,
33 administered by DEQ, under ORS Chapter 466; OAR Chapter 340, Division 150; and the
34 program relating to the generation, treatment, storage and disposal of hazardous wastes,
35 administered by DEQ, under ORS Chapter 466; OAR Chapter 340, Divisions 100 through 113;

36
37 **V. B. Requirement Which Do Not Relate to Siting ORS 469.401(4)**

38
39 The following programs are not within the Council's jurisdiction and are not governed by this
40 Amended Site Certificate because the programs address design-specific construction or operating
41 standards and practices not related to siting:

42
43 (1) The Oil Spill Contingency and Prevention Plan program, administered by DEQ Water
44 Quality Division under ORS 468B and OAR Chapter 340, Division 47, which regulates the
45 transport, storage, handling and spill control and prevention of petroleum products;

1 (2) Regulations of building, structure design and construction practices by the Oregon Building
2 Codes Division under ORS Chapters 447, 455, 460, 476, 479, and 480; OAR Chapter 918,
3 Divisions 225, 290, 301, 302, 400, 440, 460, 750, 770, and 780;

4
5 (3) Various programs addressing fire protection and fire safety and the storage, use, handling,
6 and emergency response for hazardous materials and community right to know Third Amended
7 Site Certificate Klamath Cogeneration Project Sept. 21, 2007 p.41 laws for hazardous materials,
8 administered by the Oregon State Fire Marshal's Office, under ORS Chapters 453, 476, and 480;
9 OAR Chapter 837, Divisions 40 and 90;

10
11 (4) The program addressing design and safety standards for natural gas pipelines and electric
12 transmission lines administered by the Oregon Public Utilities Commission, Safety Section under
13 ORS Chapter 757; OAR Chapter 860, Division 24;

14
15 (5) Regulations on the size and weight of truck loads on state and federal highways administered
16 by the Oregon Department of Transportation under ORS Chapter 818; OAR Chapter 743,
17 Division 82;

18
19 (6) The program regulating the possession, use and transfer of radioactive materials administered
20 by the Oregon State Health Division (OSHD) under ORS Chapter 453; OAR Chapter 333,
21 Divisions 100-119;

22
23 (7) Regulations of domestic water supply systems regarding potability administered by OSHD
24 under ORS Chapter 448;

25
26 (8) Permits required from the Oregon Department of Transportation (ODOT) to "connect" the
27 construction and operation access road for the KCP into a state highway;

28
29 (9) Permits required from ODOT to place a structure within, or to cross, a state highway right-of-
30 way;

31
32 (10) An Industrial Wastewater Discharge Permit from the City of Klamath Falls to discharge
33 KCP wastewater to the City's Spring Street Wastewater Treatment Plant; and

34
35 (11) Building permits required and administered by Klamath County.

36
37 **VI. AMENDMENT OF AMENDED SITE CERTIFICATE**

38
39 Klamath Energy and the Council recognize that, because of the length of time that may pass
40 between the date on which this Amended Site Certificate is executed and the date on which
41 construction will commence, and that will pass between the time construction is commenced and
42 the Facility is retired, it may be necessary to amend this Amended Site Certificate.
43 Amendments shall be made in accordance with OAR Chapter 345, Division 27 or Council
44 procedural rules regarding amendments in effect at the time the amendment is sought.
45

1 **VII. SUCCESSORS AND ASSIGNS**

2
3 This Amended Site Certificate, or any portion thereof, may not be transferred, assigned, or
4 disposed of in any other manner, directly or indirectly, except in compliance with OAR 345-27-
5 100 or Council rules in effect at the time such action is sought.
6

7 **VIII. SEVERABILITY AND CONSTRUCTION**

8
9 If any provision of this Amended Site Certificate is declared by a court to be illegal or in conflict
10 with any law, the validity of the remaining terms and conditions shall not be affected, and the
11 rights and obligations of the parties shall be construed and enforced as if the Amended Site
12 Certificate did not contain the particular provision held to be invalid.
13

14 **IX. GOVERNING LAW AND FORUM**

15
16 This Amended Site Certificate shall be governed by the laws of the State of Oregon.
17
18 Any litigation or arbitration arising out of this Amended Site Certificate shall be conducted in an
19 appropriate forum in Oregon.
20

21 **IN WITNESS WHEREOF**, this Amended Site Certificate has been executed by the State of
22 Oregon, acting by and through its Energy Facility Siting Council, and Klamath Energy LLC.
23

24
25 ENERGY FACILITY SITING COUNCIL
26

27
28 By: _____
29 Robert Shiprack, Chair Date
30

31
32
33 KLAMATH ENERGY LLC
34

35
36 By: _____
37 Date

1 KLAMATH COGENERATION PROJECT
2 FOURTH AMENDED SITE CERTIFICATE
3 APPENDICES
4

- 5 Appendix A Application for Site Certificate: Figure B-3 "Station Arrangement"; Request for
6 Amendment: Figure B-3, "Station Arrangement".
7
- 8 Appendix B Application for Site Certificate: Figure C-1 "Transmission Line/Pipeline Routes"
9
- 10 Appendix C Application for Site Certificate: pages B-6, 7, 9, 10, 13 and 14; F-1, 2, 3, 6 and 7;
11 M-4; N-12; U-4, 5, 6, 7 and 9; V-1, 2, 3 and 4; Figure X-2; Request for
12 Amendment: pages B-2 through 8; Tables M-1, M-2, M-3 and Figure M-1; Table
13 O-1; Figure X-1.
14
- 15 Appendix D Correspondence
16 • RMI October 9, 1996 letter to the Department, page 1.
17 • RMI January 2, 1997 letter to the Department, page 2, and Figure B-1 and
18 Figure F-1.
19 • Department of Geology and Mineral Industries (DOGAMI) December 2, 1996
20 and May 16, 1996 letters to the Department, including ASC pages G-18 and
21 19.
22 • Building Codes Division (BCD) December 13, 1996 Interoffice Memo to M.
23 Long from R. Tamerhoulet.
- 24 Appendix E Oregon Revised Statutes, Chapter 469, 1997 edition.
25 Appendix F House Bill 3283, Enrolled, effective June 26, 1997.
26 Appendix G Oregon Administrative Rules, Chapter 345, Divisions 1, 22, 23, 24, 26, 27 and 29
27 .