DOCKETED	
Docket Number:	79-AFC-03C
Project Title:	Compliance - Application for Certification of PG&E Geysers Unit 18
TN #:	207191
Document Title:	Expedited Processing Pursuant to Ex Order B-36-15
Description:	Approval of Emergency Reconstruction Activities
Filer:	Christine Stora
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	1/5/2016 4:31:46 PM
Docketed Date:	1/5/2016

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET SACRAMENTO, CA 95814-5512 www.energy.ca.gov



January 5, 2016

Mr. James Kluesener Vice President, Geothermal Regional Operations Geysers Power Company, LLC 10350 Socrates Mine Road Middletown, CA 95461

RE:

Geysers Power Company Socrates (Unit 18) Geothermal Project (79-AFC-3C)

Expedited Processing Pursuant to Executive Order B-36-15

Dear Mr. Kluesener:

After the September 12, 2015 Valley Fire, the Geysers Power Company requested expedited processing and approval of emergency reconstruction activities at the Socrates (Unit 18) Geothermal Project. On November 20, 2015, based upon the information and attachments provided in that request, I authorized under Governor Brown's Executive Order B-36-15, the repair, reconstruction and/or in-kind replacement of the Unit 18 cooling tower to remediate the wildfire damage and restore power plant operations (TN# 206740).

The Executive Order states in part that "[t]he Energy Commission shall expedite the processing of all applications or petitions for amendments to power plant certifications issued by the Energy Commission for the purpose of remediating any wildfire damage and to restore power plant operation by authorizing emergency construction activities including demolition, alteration, replacement, repair or reconstruction necessary for power plant operation. Title 20, section 1769 of the California Code of Regulations is hereby waived for any such petition, and the Executive Director of the Energy Commission shall approve such petitions as he deems necessary."

Air Quality staff worked with the Northern Sonoma County Air Pollution Control District (NSAPCD) on the Authority to Construct (ATC) permit revisions - the replacement cooling tower is functionally equivalent to the damaged cooling tower, except for superior air emissions performance. On December 9, 2015, the NSAPCD issued a revised final ATC air permit for the in-kind Unit 18 replacement cooling tower (see attached). Based upon Energy Commission staff's review and the Executive Order B-36-15, I deem the revised ATC, when incorporated into the project Final Decision, necessary for wildfire remediation and to restore power plant operations. I hereby direct staff to docket the ATC, and incorporate these provisions into the Energy Commission's Unit 18 Final Decision.

Sincerely,

Robert P. Oglesby Executive Director Mr. James Kluesener January 5, 2016 Page 2

Attachment: Northern Sonoma County Air Pollution Control District Final Authority to Construct, (December 9, 2015).

cc: Robert B. Weisenmiller, Chair, California Energy Commission
Karen Douglas, Commissioner, California Energy Commission
David Hochschild, Commissioner, California Energy Commission
Andrew McAllister, Commissioner, California Energy Commission
Janea A. Scott, Commissioner, California Energy Commission
Tennis Wick, Director, Sonoma County Permit and Resource Management Department
Alexander Saschin, Northern Sonoma County Air Pollution Control District
Richard Burns, Field Manager, U.S. Bureau of Land Management
Elizabeth Johnson, Geothermal Officer, California Department of Conservation
Joseph Austin, District Deputy, CA Department of Conservation, Division of Oil, Gas,
and Geothermal Resources

Honorable Jose Simon III, Chairperson, Middletown Rancheria of Pomo Indians Honorable Chris Wright, Chairperson, Dry Creek Rancheria Band of Pomo Indians Honorable Scott Gabaldon, Chairperson, Mishewal Wappos of Alexander Valley Honorable Marjorie Mejia, Chairperson, Lytton Rancheria of California Shin-Roei Lee, Assistant Executive Director, North Coast Regional Water Quality Control Board

Guy Childs, Central Valley Regional Water Quality Control Board

Dennis Peters, External Affairs Manager, California ISO

Ed Randolph, Energy Division Director, California Public Utilities Commission

Tina Bartlett, Regional Manager, California Department of Fish and Wildlife, North Central Region 2

Scott Wilson, Regional Manager, California Department of Fish and Wildlife, Bay Delta Region 3

Kellie Berry, Sacramento Valley Division Chief, U.S. Fish and Wildlife Service, Region 8 Ryan Olah, Coast Bay Division Chief, U.S. Fish and Wildlife Service, Region 8 Dale Wierman, California Department of Forestry, Environmental Protection Greg Allen, California Air Resources Control Board, Stationary Source Branch

NORTHERN SONOMA COUNTY AIR POLLUTION CONTROL DISTRICT

150 Matheson Street Healdsburg CA 95448 Telephone (707) 433-5911

Authority to Modify and Temporary Permit to Operate # 15-16 (75-25A)

COMPANY:

Geysers Power Company, LLC c/o Calpine Corporation 10350 Socrates Mine Road Middletown CA 95461

EQUIPMENT DESCRIPTION:

GEOTHERMAL POWER PLANT, UNIT NO. 18 CONSISTING OF:

- 1. TURBINE, 1,905,550 LB STEAM/HR MAXIMUM
- 2. GENERATOR, 119 MEGAWATT
- 3. CONDENSER WITH STEAM OPERATED TWO AND THREE STAGE GAS EJECTOR SYSTEM
- 4. COOLING TOWER, CROSS-FLOW, MECHANICAL DRAFT TYPE WITH 0.001% RATED MIST ELIMINATORS AND WITH 11 200 HP FANS
- 5. TWO 100% CONDENSATE PUMPS, EACH 200 HP AND EACH 4700 GPM
- 6. THREE AUXILIARY CONDENSATE PUMPS, EACH 15 HP
- 7. TWO 50% CIRCULATING WATER PUMPS, EACH 2500 HP AND EACH 84,000 GPM
- 8. CIRCULATING WATER H2S ABATEMENT SYSTEM CONSISTING OF:
 - A. ABATEMENT SOLUTION STORAGE TANK, 5400 GALLON
 - B. ONE 100% PUMP AND ONE 100% SPARE
 - C. MASS FLOW METER AND FLOW ALARM
- 9. GLAND STEAM LEAK OFF CONDENSER
- 10. GLAND LEAK OFF EXHAUSTER
- 11. GLAND LEAKOFF EXHAUSTER SEPARATOR

Reconstruction of Cooling Tower.

LOCATED AT:

GEYSERS, SONOMA COUNTY, CA

Whereas application for an Authority to Construct/Temporary Permit to Operate has been made by the Geysers Power Company, LLC (hereinafter called the Operator) pursuant to Regulation 1 of the Rules and Regulations of the Northern Sonoma County Air Pollution Control District (hereinafter called the District), and said application has been reviewed and considered by the Air Pollution Control Officer of said District (hereinafter referred to as the Control Officer or NSCAPCD).

This is your Authority to Construct/Temporary Permit to Operate (hereinafter called PERMIT) subject to the following terms and conditions:

Permit Conditions:

A. Emission limits

- 1. The maximum cumulative hydrogen sulfide (H2S) emissions from the plant shall not exceed 11.46 pounds per hour (5.2 kg/hr).
- 2. Annual emissions from the cooling tower shall not exceed, on a calendar year basis, 24.4 tons per year of hydrogen sulfide (H2S), 15.9 tons per year particulate matter less than 10 microns in diameter (PM-10) and 11.0 tons per year particulate matter less than 2.5 microns in diameter (PM-2.5).

B. Operational limits and Requirements

1. The permit holder shall install drift eliminators rated at 0.001% or less at the cooling tower.

C. Monitoring and Testing

- Within 30 days of start-up the permit holder shall conduct a performance evaluation of the new cooling tower, including particulate matter and H2S emission rates.
- 2. The operator shall submit to the District, for prior approval, a performance evaluation test plan at least 15 days prior to conducting the tests.
- 3. Compliance with the particulate mass emission limitation from the cooling tower shall be based on the evaporative cooling tower manufacturers design drift eliminator drift rate, 0.001 percent, multiplied by the circulating water rate and, total dissolved solids (TDS) and total suspended solids (TSS). A circulating water sample shall be collected and analyzed for TDS and TSS on a monthly basis.

ATC 15-16

D. Recordkeeping

- In order to demonstrate compliance with the above permit conditions, records shall be maintained in a District approved log, shall be kept on site, and made available for District inspection for a period of 5 years from the date on which a record is made. The records shall include the following information summarized on a monthly basis:
 - a. Total H2S, PM-10 and PM-2.5 annual emissions to date.

E. Reporting

1. Within 30 days of conducting the performance tests pursuant to Condition A.1. the permit holder shall submit to the District the test results from the performance tests as outlined in the performance evaluation plan.

F. Administrative Requirements

1. Facilities Operation

- a. Operation under this permit must be conducted in compliance with all data and specifications included in the application which attest to the operator's ability to comply with District Rules and Regulations. This permit must be posted in a conspicuous place nearby or, as per rule 240.
- b. All equipment of this PERMIT shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [NSCAPCD Rule 240.d]

2. Permit Expiration

This Authority to Construct is valid for one year and may be extended by an additional year with the payment of the annual renewal fee. After construction of the listed equipment, the permit to operate shall remain valid provided the annual renewal fees are paid in accordance with District Rule 300 and all Permit conditions are met. [NSCAPCD Rule 300.5.1]

Severability

The provisions of this PERMIT are severable, and, if any provision of this PERMIT is held invalid, the remainder of this PERMIT shall not be affected.

ATC 15-16

4. Notification Requirements

- a. Applicant shall notify the District at least 3 days prior to the start-up of this source
- b. Upsets and Breakdowns In the event of any failure of process or abatement equipment to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in District Rules or in conditions to this PERMIT the Operator shall notify the District as provided by Rule 540 regarding upset breakdown conditions to petition for shelter from enforcement actions. In order to qualify for such shelter an initial notification of the equipment failure must be reported to the District Office no later than one (1) hour after its detection during normal office hours (8:00 am to 4:30 pm) or one (1) hour after the start of the next regular business day, whichever is sooner. [NSCAPCD Rule 540]:
- c. Transfer of Ownership In the event of any changes in control or ownership of facilities to be constructed or modified, this PERMIT together with its terms and conditions shall be binding on all subsequent owners and operators. The Applicant shall notify the succeeding owner and operator of the existence of this PERMIT and its conditions by letter, a copy of which shall be forwarded to the Control Officer. [NSCAPCD Rule 240.j.]

5. Right to Entry

The Control Officer, The Chairman of the California Air Resources Board, The Regional Administrator of USEPA, and/or their authorized representatives, upon the presentation of credentials, shall be permitted:

- To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this PERMIT; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this PERMIT; and
- c. To inspect any equipment, operation, or method required in this PERMIT; and
- d. To sample emissions from the source. [NSCAPCD Rule 240.e]

THIS PERMIT BECOMES VOID UPON ANY ALTERATION OF EQUIPMENT

This permit does not authorize the emission of air contaminants in excess of those allowed by the Health and Safety Code of the State of California or the Rules and Regulations of the Northern Sonoma County Air Pollution Control District. This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies. The violation of any of these terms and conditions shall be grounds for revocation of this PERMIT, and shall be a violation of District Rules and Regulations under Rule 240. This permit can be reviewed annually and can be amended by the District as allowed by Rule 240(h).

DATE: 12/9/15

PERMIT NUMBER 15-16

(PTO 75-25A)

BY:

Rob Bamford

Air Pollution Control Officer

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