

CALIFORNIA ENERGY COMMISSION

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

DOCKET 08-AFC-9	
DATE	OCT. 1 6 2008
RECD.	OCT 1 6 2008



NOTICE OF RECEIPT
SUPPLEMENTAL INFORMATION FOR THE APPLICATION FOR CERTIFICATION
PALMDALE HYBRID POWER PROJECT (08-AFC-9)

On August 4, 2008, the city of Palmdale submitted an Application for Certification (AFC) to construct and operate the Palmdale Hybrid Power Project (PHPP), a hybrid of natural gas-fired combined cycle generating equipment integrated with solar thermal generating equipment, in the city of Palmdale, Los Angeles County. On October 1, 2008, the City of Palmdale provided a Volume III Data Adequacy Supplement to the AFC to satisfy the Energy Commission's informational requirements. On October 8, 2008, the Energy Commission accepted the AFC with the supplemental information as complete. The Energy Commission staff has now begun the data discovery and analysis phases of the project's 12-month licensing process.

Project Description

The proposed PHPP would have a net electrical output of 617 megawatts (MW), with construction planned to begin in spring or summer of 2011 and commercial operation planned by summer of 2013. PHPP is designed to use solar technology to generate a portion of the project's output and thereby support the State of California's goal of increasing the percentage of renewable energy supplies. Primary equipment for the generating facility would include two natural gas-fired combustion turbine-generators (CTGs) rated at 172 MW each, two heat recovery steam generators (HRSGs), one steam turbine-generator (STG) rated at 292 MW, and 250 acres of parabolic solar-thermal collectors with associated heat transfer equipment. The solar-thermal collectors would contribute up to 50 MW of the STG's 292 MW output, and with plant auxiliary loads of about 19 MW, PHPP's net output would be 617 MW.

Construction of the proposed PHPP would require permanent use of 327 acres at the power plant site, located immediately north and west of the combined facilities of Los Angeles/Palmdale Regional Airport and Air Force Plant 42. Air Force Plant 42 supports facilities for the production, engineering, final assembly and flight testing of high performance aircraft. The power plant site would require 250 acres for the solar field, 26 acres for the power block, and 51 acres combined for the access road, setbacks and drainage facilities. Construction laydown would require a separate 50-acre temporary area located west of and adjacent to the proposed power plant site. The project site is situated approximately 60 miles north of downtown Los Angeles and in the northernmost portion of the city of Palmdale. The site address is 950 East Avenue M, and is part of an approximately 600-acre site owned by the city of Palmdale, bounded on the west by vacant land and then Sierra Highway, on the north by East Avenue M, on the east by East 15th Street and on the south by Avenue M-12.

The proposed PHPP facility would feed power through a 230- kilovolt (kV) transmission system and interconnect to the power grid through Southern California Edison's (SCE's) existing Vincent Substation. As a direct sight distance, Vincent substation is located

approximately 11 miles south-southwest of the proposed PHPP site, but the interconnection would require a total 35.6 miles of 230-kV overhead transmission line to avoid affecting aviation operations of the Los Angeles/Palmdale Regional Airport and Air Force Plant 42. The transmission line is characterized in two segments. Segment 1 of the line, consisting of new steel poles and conductor, would run approximately 23.7 miles through new and existing rights-of-way (ROWs) beginning at the northeastern boundary of the proposed PHPP site and extending generally eastward and then generally southward to a pole in the vicinity of SCE's Pearblossom Substation. Segment 2 extends from this point westward to SCE's existing Vincent Substation, and would consist of new steel poles and a double circuit of conductors within an existing SCE ROW.

Natural gas would be delivered to the project through a new 8.7-mile, 20-inch diameter pipeline designed and constructed by Southern California Gas (SCG), originating at the SCG facility on East Avenue S Street, and terminating at PHPP. The pipeline route would generally follow a northward heading near or adjacent to Sierra Highway through existing street ROWs within the city of Palmdale.

On an annual basis, the proposed PHPP would consume a maximum of about 3,150 acre-feet/year of water for power plant processes, primarily serving cooling demand for an evaporative (wet) cooling tower used for steam condensation and an evaporative cooler for each CTG's inlet air cooling. Process water needs would be met by the use of reclaimed water supplied by the Palmdale Water Reclamation Plant (PWRP). Reclaimed water would be conveyed in a new 7.4-mile, 14-inch pipeline extending from the PWRP located southeast of the proposed site, and then following a general path westward along East Avenue P Street, northward along Sierra Highway, and then eastward along East Avenue M Street. Potable water would be supplied to the proposed project by Los Angeles County Waterworks District No. 40 via a new 1.0-mile pipeline extending to PHPP along East Avenue M Street from a connection at an existing pipeline near the intersection with Sierra Highway. Process wastewater would be treated using a zero liquid discharge system, separating water for reuse from solids in the form of brine that would be processed into solids for landfill disposal. Sanitary wastewater would be sent to the Los Angeles County Sanitation District's sewer system via a new 1.0-mile sanitary wastewater line running northward from PHPP and connecting to the sewer system at the intersection of East Avenue L Street and 10th Street East.

Air emissions from the combustion of natural gas in the CTGs and duct burners within the HRSGs would be controlled using best available control technology applied to their exhaust. Oxides of nitrogen (NO_x) from the CTG's stack emissions would be controlled by dry low-NO_x combustors followed by a selective catalytic reduction system in each of the HRSGs. An oxidation catalyst located within each HRSG would also control carbon monoxide (CO) and volatile organic compounds (VOC). In order to be considered for licensing by the Energy Commission, the project would be required to conform with rules and regulations of the Antelope Valley Air Quality Management District and be issued a Determination of Compliance from the Air District.

Energy Commission's Facility Certification Process

The Energy Commission is responsible for reviewing and ultimately approving or denying all applications to construct and operate thermal electric power plants, 50 MW and greater, in California. The Energy Commission's facility certification process carefully examines public health and safety, environmental impacts, and engineering aspects of proposed power plants and all related facilities, such as electric transmission lines and natural gas and water pipelines. The Energy Commission is the lead agency under the California Environmental Quality Act (CEQA), but it produces several environmental and decision documents rather than an Environmental Impact Report.

Public Participation

Over the coming months, the Energy Commission will conduct a number of public workshops and hearings to determine whether the proposed project should be approved for construction and operation and under what set of conditions. The workshops will provide the public as well as local, state and federal agencies the opportunity to participate in reviewing the proposed project. The Energy Commission will issue notices for these workshops and hearings at least 10 days prior to the meeting.

Please direct your technical or project schedule questions to John Kessler, Energy Commission Project Manager, at (916) 654-4679, or by email at jkessler@energy.state.ca.us. If you desire information on participating in the Energy Commission's review of the project, please contact the Energy Commission's Public Adviser, Elena Miller, at (916) 654-4489, or toll free in California at (800) 822-6228, or via email at pao@energy.state.ca.us. News media inquiries should be directed to Assistant Director, Susanne Garfield, at (916) 654-4989. The status of the proposed project, copies of notices, an electronic version of the AFC, and other relevant documents are also available on the Energy Commission's Internet web site at: <http://www.energy.ca.gov/sitingcases/palmdale>. You can also subscribe to receive email notification of all notices at <http://www.energy.ca.gov/listservers>.

This notice of receipt has been mailed to all parties that requested placement on the mailing list during the pre-filing period and to property owners located within 1000 feet of the proposed project site. By being on the mailing list, you will receive notices of all project-related activities and notices when documents related to the proposed project's evaluation are available for review. If you want your name removed from the mailing list, please contact Hilarie Anderson, Project Secretary, at (916) 651-0479, or by email at HAnderso@energy.state.ca.us.

Availability of the AFC Document

Copies of the AFC are available for public inspection at the following public libraries located in Los Angeles, Kern and San Bernardino Counties:

Palmdale City Library
700 East Palmdale Blvd.
Palmdale, CA 93550

Lancaster Public Library
601 W. Lancaster Blvd.
Lancaster, CA 93534

October 2008

Page 4 of 4

Sylmar Branch Library
14561 Polk Street
Sylmar, CA 91342

California City Branch Library
9507 California City Blvd.
California City, CA 93505

Wanda Kirk (Rosamond) Branch Library
3611 Rosamond Blvd.
Rosamond, CA 93560

Beale Memorial Library
701 Truxtun Ave.
Bakersfield, CA 93301

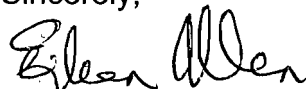
Victorville Branch Library
15011 Circle Drive
Victorville, CA 92395

San Bernardino County
Library
104 West 4th Street
San Bernardino, CA 92415

Barstow Branch Library
305 E. Buena Vista St.
Barstow, CA 92311

Copies are also available at the Energy Commission's Library in Sacramento, the California State Library in Sacramento, and at public libraries in Los Angeles, San Diego, San Francisco and Eureka. In addition, copies will be distributed to those public agencies that would normally have jurisdiction except for the Energy Commission's exclusive authority to certify sites and related facilities.

Sincerely,



EILEEN ALLEN, Manager
Energy Facilities Siting and Compliance Office

Date: 10/16/08

Mailed to Property Owners List 7318