

**CALIFORNIA ENERGY COMMISSION**

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

**08-AFC-11**

DATE DEC 04 2008

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**NOTICE OF RECEIPT  
FOR THE APPLICATION FOR CERTIFICATION  
CPV VACA STATION PROJECT (08-AFC-11)**

On November 18, 2008, CPV Vacaville, LLC (CPVV) submitted an Application for Certification (AFC) to the California Energy Commission to construct and operate an electrical generating plant in the City of Vacaville, Solano County, California. The CPV Vaca Station (CPVVS) would be a combined-cycle, nominal 660-megawatt (MW) power generation facility.

**Project Location**

The proposed project would be located on a 24-acre parcel owned by the City of Vacaville, located at the intersection of Lewis and Fry roads in a rural area within the city limits of Vacaville. On the northwest of the site is the City of Vacaville's Easterly Wastewater Treatment Plant (EWTP), and to the east, west, and south is agricultural use.

**Project Description**

Highlights of the Project are as follows:

- The proposed project is a 660-megawatt (MW) nominal, natural gas-fired, combined-cycle generating plant which will either utilize two General Electric Frame 7FA or two Siemens SGT6 5000F combustion turbine-generators (CTGs), a single condensing steam turbine generator (STG), a deaerating surface condenser, a 12-cell mechanical draft cooling tower, and associated support equipment.
- The CTGs would be equipped with evaporative coolers on the inlet air system and dry low nitrogen oxide (NO<sub>x</sub>) combustors.
- The heat recovery steam generators (HRSGs) would be of the horizontal, natural circulation type, equipped with duct burners. The emission reduction system would include a selective catalytic reduction (SCR) unit to control NO<sub>x</sub> stack emissions and an oxidation catalyst to control carbon monoxide and volatile organic compounds emissions.
- A nominal 1,000-kilowatt (kW), diesel-fired emergency generator would also be included in the project.
- The project makeup water supply would consist entirely of reclaimed secondary-treated wastewater (1,185 million gallons per year) from the EWTP. The wastewater supply from the EWTP would be treated on site to meet California Title 22 requirements for the industrial reuse of secondary-treated wastewaters.
- A zero liquid discharge (ZLD) treatment system would process all plant wastewater streams not recovered for reuse within the project. Small quantities of specific wastewaters (such as some equipment cleaning wastewaters) that cannot be made

suitable for treatment in the ZLD system or plant reuse would be collected for offsite disposal at a licensed treatment, storage, and disposal facility. As a result, no process wastewater (except for the tertiary-treatment system filter backwash) would be discharged from the project.

- The project would use a small amount of the local municipal drinking water supply for plant personnel potable water uses.

If approved, construction of the project would begin in the spring of 2011 and would last for 30 months. Pre-operational testing of the power plant would begin in the fall of 2012 with full-scale commercial operation commencing by spring 2013.

### **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 issuance of a certificate by the Energy Commission is in lieu of any local, state or federal permit (to the extent permitted by federal law). The Energy Commission is the Lead Agency under the California Environmental Quality Act (CEQA), but through its certified regulatory program 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 ten days prior to the meeting.

Please direct your technical or project schedule questions to Rod Jones, Energy Commission Project Manager, at (916) 654-5191, or by email at [rjones@energy.state.ca.us](mailto:rjones@energy.state.ca.us). If you desire information on participating in the Energy Commission's review of the proposed project, please contact Elena Miller, the Energy Commission's Public Adviser, at (916) 654-4489, or toll free in California at (800) 822-6228, or by email at [pao@energy.state.ca.us](mailto:pao@energy.state.ca.us). If you require special accommodations, please contact Lourdes Quiroz at (916) 654-5146. News media inquiries should be directed to (916) 654-4989, or by email at [mediaoffice@energy.state.ca.us](mailto:mediaoffice@energy.state.ca.us). 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/vacastation/index.html>. 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

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the proposed project site or 500 feet of any linear facilities. 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 April Albright, Project Secretary, at (916) 653-1640, or by email at [AEsau@energy.state.ca.us](mailto:AEsau@energy.state.ca.us).

**Availability of the AFC Document**

Copies of the AFC are available for public inspection at the following Solano County public libraries:

Vacaville Public Library – Cultural Center	Vacaville Town Square
1020 Ulatis Drive	1 Town Square
Vacaville, CA 95687	Vacaville, CA 95688

Copies are also available at the Energy Commission's Library in Sacramento, the California State Library in Sacramento, and at public libraries in Eureka, San Francisco, Fresno, Los Angeles, and San Diego. 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,

**Original signature in Dockets**

Date: 12/04/08

Eileen Allen, Manager  
Energy Facilities Siting and Compliance Office