

**CALIFORNIA ENERGY COMMISSION**1516 NINTH STREET  
SACRAMENTO, CA 95814-5112**DOCKET**  
**08-AFC-11**

December 3, 2008

DATE DEC 03 2008RECD. DEC 04 2008

Dear Librarian:

**DOCUMENT HANDLING FOR THE CPV VACA STATION PROJECT APPLICATION FOR CERTIFICATION (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.

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.

The Energy Commission's siting process is open to the public and incorporates the input of the public as well as local, state, and federal agencies. To facilitate public participation in our review process, the Energy Commission has sent copies of the AFC to libraries in the project area, and to libraries in Eureka, San Francisco, Sacramento, Fresno, Los Angeles, and San Diego.

Please make the enclosed AFC available for those who may wish to be informed about the project. We request that you not allow the AFC or any of its contents be removed from the library. To increase accessibility of the document, we ask, if possible, that you cross reference it as a general reference work under the title and author categories, as well as under such subjects as "Energy Commission," "electricity," "energy/generation," "power plant siting," or any other relevant subject. Note: A hard copy of the Phase I Environmental Site Assessment is available for review, if needed, and may be obtained through contacting Energy Commission staff.

Thank you for your cooperation. If you have any questions, please contact 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), or April Albright, Project Secretary, at (916) 653-1640, or by e-mail at [AEsau@energy.state.ca.us](mailto:AEsau@energy.state.ca.us).

Sincerely,

**Original signature in Dockets**EILEEN ALLEN, Manager  
Energy Facilities Siting and Docket Office

Enclosure

**CALIFORNIA ENERGY COMMISSION**

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



December 3, 2008

**To: MEMBERS OF THE PUBLIC**

**PUBLIC PARTICIPATION IN THE REVIEW OF THE 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. Tertiary treatment filter backwash would be returned to the headworks of the EWTP.

- 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 applications for all thermal electric power plants in California that are, 50 MW and greater, proposed for construction. 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 through its certified regulatory program produces several environmental and decision documents rather than an Environmental Impact Report.

As part of our review process, the staff of the Energy Commission works closely with local, state and federal agencies to ensure that all laws, ordinances, regulations and standards are addressed in the Energy Commission's final decision. The first step in the review process is for the Energy Commission staff to determine whether or not the AFC contains all the information required by our regulations. When the AFC is deemed data adequate, we will begin the data discovery and issue analysis phases. At that time a detailed examination of the issues will occur.

### **Public Participation**

Over the coming months, the Energy Commission will conduct a number of public workshops and hearings to determine whether and under what conditions the proposed project should be approved for construction and operation. 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. If you are not currently receiving these notices and wish to be placed on the mailing list, please contact April

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Albright, Project Secretary, at (916) 653-1640, or by email at [AEsau@energy.state.ca.us](mailto:AEsau@energy.state.ca.us).

If you desire information about participating in the Energy Commission's review of the proposed project, please contact Elena Miller, the Energy Commission's Public Adviser, by phone 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). Technical or project schedule questions should be directed 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).

**Note: Please retain this letter behind the front cover of the AFC. Thank You.**