

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
SACRAMENTO, CA 95814-5112



DOCKET
08-AFC-10

November 21, 2008

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Dear Librarian:

DOCUMENT HANDLING FOR THE LODI ENERGY CENTER PROJECT APPLICATION FOR CERTIFICATION (08-AFC-10) – SUPPLEMENTAL INFORMATION

On September 10, 2008, Northern California Power Agency (NCPA) submitted an Application for Certification (AFC) to the California Energy Commission to construct and operate an electrical generating plant in the City of Lodi, San Joaquin County, California. The Lodi Energy Center (LEC) would be a combined-cycle, nominal 255-megawatt (MW) power generation facility.

On October 24, 2008, NCPA provided a supplement to the AFC to satisfy the Energy Commission's informational requirements. On November 20, 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 phase of the project's 12-month licensing process.

The proposed project would be located on 4.4 acres of land owned and incorporated by the City of Lodi, 6 miles west of the Lodi city center, located near Interstate-5 (I-5) approximately 1.7 miles south of State Route 12. On the east side of the site is the City of Lodi's White Slough Water Pollution Control Facility (WPCF). The WPCF's treatment and holding ponds are located to the north; NCPA's existing 49-MW generating plant (CT P #2) is located to the west with a 230-kV Pacific and Gas Electric overhead electrical transmission line aligned further to the west, and the San Joaquin County Mosquito and Vector Control facility is to the south. The proposed project would also be located near the city of Stockton, which is approximately 2 miles south. The project site is currently undeveloped and used for equipment storage during upgrades to the WPCF.

If approved, construction of the project would begin in the first quarter of 2010 and would last for 24 months. Pre-operational testing of the power plant would begin in the fourth quarter, with full-scale commercial operation commencing by first quarter 2012.

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.

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, or April Albright, Project Secretary, at (916) 653-1640, or by e-mail at 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



November 21, 2008

To: MEMBERS OF THE PUBLIC

DISTRIBUTION OF SUPPLEMENTAL INFORMATION FACILITATING PUBLIC PARTICIPATION IN THE REVIEW OF THE LODI ENERGY CENTER PROJECT APPLICATION FOR CERTIFICATION (08-AFC-10)

On September 10, 2008, Northern California Power Agency (NCPA) submitted an Application for Certification (AFC) to the California Energy Commission to construct and operate an electrical generating plant in the City of Lodi, San Joaquin County, California. The Lodi Energy Center (LEC) would be a combined-cycle nominal 255-megawatt (MW) power generation facility. A copy of this AFC was previously provided to the Library on September 22, 2008. Enclosed with this letter is a copy of an information supplement to the AFC. On November 20, 2008, the Energy Commission accepted the AFC with the supplemental information as complete. The staff of the Energy Commission has now begun the data discovery and analysis phase of the project's licensing process.

Project Location

The proposed project would be located on 4.4 acres of land owned and incorporated by the City of Lodi, 6 miles west of the Lodi city center, located near Interstate-5 (I-5) approximately 1.7 miles south of State Route 12. On the east side of the site is the City of Lodi's White Slough Water Pollution Control Facility (WPCF). The WPCF's treatment and holding ponds are located to the north; NCPA's existing generating 49-MW plant (CTP #2) is located to the west with a 230-kV Pacific and Gas Electric overhead electrical transmission line aligned further to the west; and the San Joaquin County Mosquito and Vector Control facility is to the south. The proposed project would also be located near the city of Stockton, which is approximately 2 miles south. The project site is currently undeveloped and used for equipment storage during upgrades to the WPCF.

Project Description

Highlights of the Project are as follows:

- The proposed project is a 255-MW nominal, natural gas-fired, combined-cycle generating plant with a "Rapid Response" General Electric Frame 7FA combustion turbine-generator (CTG), a single condensing steam turbine generator (STG), a deaerating surface condenser, a 7-cell mechanical draft cooling tower, and associated support equipment.
- The CTG is equipped with an evaporative cooler on the inlet air system and dry-low nitrogen oxide (NO_x) combustors.

- The heat recovery steam generator (HRSG) would be a horizontal, natural circulation type, equipped with duct burners. The emission reduction system includes a selective catalytic reduction (SCR) unit to control nitrogen oxide (NO_x)
- Stack emissions and an oxidation catalyst to control carbon monoxide (CO) emissions.
- A small auxiliary boiler would provide steam needed to achieve reduced start times through the CTG “Rapid Response” system.
- The LEC would receive recycled water provided by the City of Lodi’s WPCF. The project would access this water through an existing 48-inch diameter pipeline in the utility corridor connecting the LEC and the WPCF.
- Cooling tower blowdown water would be disposed of using a new Class I underground injection well (UIW). As a result, no process wastewater would be discharged from the plant.
- A new approximately 520-foot, 230-kilovolt (kV) line would be constructed to transmit the plant output to the electrical grid via the existing 230-kV switchyard adjacent to the existing CTP #2 plant.
- A new 2.5 mile-long gas line would be built parallel to the existing natural gas pipeline that serves the CTP #2 plant providing natural gas to the site.
- A new onsite potable water well would be built.
- Onsite interconnection to an existing recycled water pipeline and an existing sanitary sewer pipeline would also be included in the proposed project.

Shared facilities between LEC and the existing plant

Some of the existing facilities at the CTP #2 plant would be shared with the proposed project, most notably the infrastructure:

- The anhydrous ammonia system, including both the 12,000-gallon storage tank and unloading facilities.
- The 230-kV switchyard and grid interconnection.
- The fire systems, including fire water storage tanks and diesel-fired emergency fire pump.
- The domestic water systems, including eye wash stations and emergency showers.

- An existing Class I UIW (to be used for backup only).

In addition, the following facilities would be modified or built as part of the proposed project and shared with the CTP #2 plant:

- The administration building, including the control room, office space, maintenance shop and communications systems.
- The warehouse facilities.
- The gas metering station for the existing plant would be relocated to accommodate the proposed LEC plant and would be shared by both facilities.
- The commercial cooling tower for the CTP #2 plant would be relocated to accommodate the proposed LEC plant, but would not be shared by both facilities.

If approved, construction of the project would begin in the first quarter of 2010 and would last for 24 months. Pre-operational testing of the power plant would begin in the fourth quarter, with full-scale commercial operation commencing by first quarter 2012.

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 proposed for construction in California that are 50 MW and greater. 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. The AFC was accepted as complete on November 20, 2008, beginning the Energy Commission's discovery and analysis process.

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

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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 Albright, Project Secretary, at (916) 653-1640, or by email at 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. 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.

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