

## CALIFORNIA ENERGY COMMISSION

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

California Energy Commission

**DOCKETED****12-AFC-2**

TN # 66368

JUL 27 2012



July 27, 2012

Dear Librarian:

**DOCUMENT HANDLING FOR THE AES HUNTINGTON BEACH ENERGY PROJECT (12-AFC-02)**

On June 28, 2012, AES submitted an Application for Certification (AFC) to construct and operate the Huntington Beach Energy Project (HBEP). The HBEP is proposed to be developed on 28.6-acres of privately owned land located in an industrial area of the City of Huntington Beach, California at 21730 Newland Street, just north of the intersection of the Pacific Coast Highway (Highway 1) and Newland Street. The project will be located entirely within the existing Huntington Beach Generating Station, an operating power plant.

The HBEP is under the Energy Commission's siting authority. The Commission's power plant certification process examines engineering, environmental, public health, and safety aspects of power plant proposals and provides analyses pursuant to the California Environmental Quality Act (CEQA). When issuing a license, the Energy Commission is the lead state agency under CEQA and through its certified regulatory program produces several environmental and decision documents rather than an Environmental Impact Report.

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 Fresno, Eureka, Sacramento, San Francisco, 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 to 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 the Energy Commission's Project Manager, Felicia Miller (916) 654-4640 or by e-mail at [felicia.miller@energy.ca.gov](mailto:felicia.miller@energy.ca.gov) or Diane Scott, Project Assistant, at (916) 654-4237 or by email at [diane.scott@energy.ca.gov](mailto:diane.scott@energy.ca.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Davis".

Chris Davis, Manager  
Energy Facilities Siting Office

Enclosures (2): Huntington Beach Energy Project 12-AFC-02 (CD) and  
Letter to the Public

**CALIFORNIA ENERGY COMMISSION**1516 NINTH STREET  
SACRAMENTO, CA 95814-5112**To: MEMBERS OF THE PUBLIC****PUBLIC PARTICIPATION IN THE REVIEW OF THE HUNTINGTON BEACH ENERGY PROJECT (12-AFC-02)**

On June 27, 2012, AES submitted an Application for Certification (AFC) to construct and operate the Huntington Beach Energy Project (HBEP). The HBEP is proposed to be developed on 28.6-acres of privately owned land located in an industrial area of the City of Huntington Beach, California at 21730 Newland Street, just north of the intersection of the Pacific Coast Highway (Highway 1) and Newland Street. The project will be located entirely within the existing Huntington Beach Generating Station, an operating power plant.

**PROJECT DESCRIPTION**

HBEP would be a natural-gas-fired, combined-cycle, air-cooled, 939-megawatt (MW) electrical generating facility that will replace, and be constructed on 28.6 acres entirely within the footprint of, the existing and operating AES Huntington Beach Generating Station. HBEP would consist of two independently operating, three-on-one, combined-cycle gas turbine power blocks. Each power block will consist of three natural-gas-fired combustion turbine generators (CTG), three supplemental fired heat recovery steam generators (HRSG), one steam turbine generator (STG), an air-cooled condenser, and related ancillary equipment. Other equipment and facilities to be constructed and shared by both power blocks include natural gas compressors, water treatment facilities, emergency services, and administration and maintenance buildings.

Each power block will include the following principal combined design elements:

- Three Mitsubishi Power Systems Americas (MPSA) 501DA CTGs with a nominal rating of 118 MW each. <sup>1</sup>The CTGs will be equipped with evaporative coolers on the inlet air system and dry oxides of nitrogen (NO<sub>x</sub>) combustors.
- One MPSA single-cylinder, single flow, impulse, axial exhaust condensing STG.
- Three HRSGs, which will be horizontal, single-pressure, and natural circulation. Each HRSG has a natural gas-fired duct burner for supplemental firing in the HRSG inlet ductwork and an emission reduction system consisting of a selective catalytic reduction (SCR) unit to control NO<sub>x</sub> stack emissions, and an oxidation catalyst to control carbon monoxide (CO) and volatile organic compounds (VOC) emissions in the outlet ductwork.
- One air-cooled condensers and two closed-loop cooling fin fan coolers.
- One 230kv interconnections to the existing onsite SCE 230kv switchyard.

- Direct connection with the existing onsite Southern California Gas Company (SoCalGas) natural gas 16-inch-diameter gas main.
- Connection to an existing onsite 8-inch-diameter potable water line.
- Connection to an existing City of Huntington Beach 4-inch-diameter combined sanitary and process forced main sewer line.

HBEP will reuse existing onsite potable water, natural gas, stormwater, process wastewater, and sanitary pipelines and electrical transmission facilities. No offsite linear developments are proposed as part of the project. HBEP will continue to use potable water, provided by the City of Huntington Beach, for construction, operational process, and sanitary uses, but at substantially lower volumes than historically used by the existing generation units at the Huntington Beach Generating Station.

Following completion of project licensing, HBEP construction will require the removal of the existing Huntington Beach Generating Station Units 1, 2, and 5. Demolition of Unit 5, scheduled to occur between the fourth quarter of 2014 and the end of 2015, will provide the space for the construction of HBEP Block 1. Construction of Block 1 and 2 are expected to take approximately 42 to 30 months, respectively, with Block 1 construction scheduled to occur from the first quarter of 2015 through the second quarter of 2018, and Block 2 construction scheduled to occur from the first quarter of 2018 through the second quarter of 2020. Removal/demolition of existing Huntington Beach Generating Station Units 1 and 2 is scheduled to occur from the fourth quarter of 2020 through the third quarter of 2022.

Existing Huntington Beach Generating Station Units 3 and 4 were licensed through the California Energy Commission (00-AFC-13C) and demolition of these units is authorized under that license and will proceed irrespective of the HBEP. Therefore, demolition of existing Huntington Beach Generating Station Units 3 and 4 is not part of the HBEP project definition. However, to ensure a comprehensive review of potential project impacts, the demolition of existing Huntington Beach Generating Station Units 3 and 4 is included in the cumulative impact assessment. Removal/demolition of existing Huntington Beach Generation Station Units 3 and 4 would be in advance of the construction of HBEP Block 2.

## **ENERGY COMMISSION'S SITE 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 has a certified regulatory program and is the lead agency under the California Environmental Quality Act (CEQA).

The first step in the review process is for Energy Commission staff to determine whether or not the AFC contains all the information and data required by our regulations. When the Energy Commission deems the AFC is deemed complete, staff will begin the discovery and issue analysis phases. At that time, a detailed and thorough examination of issues will occur.

## **PUBLIC PARTICIPATION**

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

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 and 500 feet of a project linear feature (e.g. pipeline). 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. Alternately, if you would prefer to receive email notifications about project related meetings and documents, sign up on the list serve at [www.energy.ca.gov/listservers/](http://www.energy.ca.gov/listservers/) If you want your name removed from the posted mailing list, please contact Diane Scott, Project Assistant, at (916) 654-4237, or by e-mail at [Diane.Scott@energy.ca.gov](mailto:Diane.Scott@energy.ca.gov). Please direct your technical or project schedule questions to Felicia Miller, Project Manager, at (916) 654-4640, or by e-mail at [Felicia.Miller@energy.ca.gov](mailto:Felicia.Miller@energy.ca.gov).

If you desire information on participating in the Energy Commission's review of the project, please contact the Energy Commission's Public Adviser, Jennifer Jennings, at (916) 654-4489 or toll free in California, at (800) 822-6228. The Public Adviser's Office can also be contacted via email at [publicadviser@energy.ca.gov](mailto:publicadviser@energy.ca.gov).

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