

DOCKETED

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Project Title:	Alamitos Energy Center
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Document Title:	Agency Notification Letter
Description:	Agency Notification Letter for the Alamitos Energy Center Supplemental AFC requesting agency participation in the review of the proposed project.
Filer:	Christopher Meyer
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CALIFORNIA ENERGY COMMISSION

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



December 10, 2015

TO: AGENCY DISTRIBUTION LIST**REQUEST FOR AGENCY PARTICIPATION IN THE REVIEW OF THE ALAMITOS ENERGY CENTER (13-AFC-01)**

On October 26, 2015, AES Southland Development, LLC (AES-SD) submitted a Supplemental Application for Certification (SAFC) (13-AFC-01) to the California Energy Commission to address significant revisions to the design for modernizing the existing Alamitos Generating Station (AGS). The SAFC replaces the original Application for Certification (AFC) filed on December 27, 2013. The Alamitos Energy Center (AEC), as currently proposed, would be located on approximately 21 acres of the 71 acre brownfield AGS site. The proposed project site is bounded to the north by State Route 22; to the east by the San Gabriel River; to the south by 2nd Street; and to the west by N. Studebaker Rd., in the city of Long Beach, Los Angeles County, California. Existing Alamitos Generating Station Units 1–6 are currently in operation with a net generating capacity of 1,950 megawatts (MW). Although AES still intends to demolish all six operating units, AES is no longer including the demolition as part of the proposed AEC project, but now plans to accomplish the demolition under a separate CEQA proceeding through a Memorandum of Understanding with the city of Long Beach. Demolition of retired Unit 7 and construction activities at the project site are anticipated to last 56 months, from first quarter 2017 until third quarter 2021.

PROJECT DESCRIPTION

The project description in the SAFC for the proposed AEC has changed from that in the AFC filed on December 27, 2013. The revised proposed AEC would include a nominal 640-megawatt (MW), natural gas-fired, combined-cycle power block and a 400-MW simple-cycle, air-cooled electrical generating facility. Power Block 1 would consist of two natural gas-fired combustion turbine generators (CTG) in a combined-cycle configuration with two unfired heat recovery steam generators (HRSG), one steam turbine generator (STG), an air-cooled condenser, an auxiliary boiler, and related ancillary equipment (collectively, AEC CCGT). Power Block 2 would consist of four simple-cycle CTGs with fin-fan coolers and ancillary facilities (collectively, AEC SCGT). The AEC is proposed to use potable water provided by the city of Long Beach Water Department (LBWD) for construction, operational process, and sanitary uses. This water would be supplied through existing onsite potable water lines.

The AEC would interconnect to the existing SCE 230-kilovolt (kV) switchyard adjacent to the northern side of the property. No new offsite natural gas lines would be necessary for the project. AEC would be supplied via the existing service pipeline for AGS Units 5 and 6 from the offsite 30-inch-diameter, high-pressure pipeline owned and operated by SoCalGas. Natural gas compressors, water treatment facilities, emergency services, and administration and maintenance buildings would be constructed within the existing

site footprint. Storm water would be discharged into two retention basins and then ultimately to the San Gabriel River via existing storm water outfalls.

The AEC would include a new 1,000 linear foot process/sanitary wastewater pipeline to the first point of interconnection with the existing LBWD sewer system and would eliminate the current practice of treatment and discharge of process/sanitary wastewater to the San Gabriel River. The project may also require upgrading approximately 4,000 linear feet of the existing offsite LBWD sewer line downstream of the first point of interconnection. Therefore, this possible offsite project-related improvement to the LBWD system will require analysis during the Energy Commission certification process.

As described in the SAFC, the AEC CCGT will be located on the southern-most portion of the AEC site, on the former AGS fuel oil storage site. AEC CCGT will include the following principal design elements:

- Two General Electric (GE) 7FA.05 CTGs with a nominal rating of 227 MW each. The CTGs will be equipped with evaporative coolers on the inlet air system and dry low oxides of nitrogen (NO_x) combustors;
- Two HRSGs with no supplemental firing,; each equipped with a selective catalytic reduction (SCR) unit in the ductwork for the control of NO_x emissions and an oxidation catalyst to control carbon monoxide (CO) and volatile organic compound (VOC) emissions;
- One, single-flow, impulse, down-exhaust condensing STG with a nominal rating of approximately 229 MW;
- One air-cooled condenser that would replace the once-through system utilizing ocean water currently used for cooling the AGS and a closed-loop fin-fan cooler;
- Natural gas compressor;
- One generator step-up (GSU) transformer per each GE 7FA gas turbine and one for the steam turbine; and
- One 230-kV interconnection to the existing SCE switchyard, which is adjacent to the site.

The AEC SCGT will be located on the northern portion of the AEC site, adjacent to the San Gabriel River. The AEC SCGT will include the following principal design elements:

- Four GE Energy LMS 100 PB natural-gas-fired combustion turbine-generators (CTGs) with a nominal rating of 100 MW each;
- Each CTG is equipped with selective catalytic reduction (SCR) equipment containing catalysts to further reduce NO_x emissions, and an oxidation catalyst to reduce carbon monoxide (CO) emissions;
- Auxiliary equipment associated with each CTG will include an inlet air filter house with evaporative cooler, turbine intercooler and associated intercooler circulating pumps;

- Two CTGs will share one fin-fan heat exchanger and one GSU transformer;
- Natural gas compressors; and
- One 230-kV interconnection to the existing onsite SCE 230-kV switchyard (see Section 3.0, Transmission Systems Engineering).

The two power blocks will share the following design elements:

- Direct connection to an existing Southern California Gas Company 30-inch-diameter natural gas pipeline and metering station;
- Connection to existing onsite municipal and industrial water lines;
- Fire water and suppression systems;
- A new 1,000-linear-foot process/sanitary wastewater pipeline to the first point of interconnection with the existing LBWD sewer system at the east end of East Vista Street in Long Beach;
- An existing storm water retention pond; and
- Water treatment and storage systems.

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 is the Lead Agency under the California Environmental Quality Act (CEQA), and because the siting process is a certified regulatory program, the Energy Commission produces several environmental and decision documents rather than an environmental impact report. The issuance of a certificate by the Energy Commission is in lieu of any local or state permits, and federal permits to the extent permitted by federal law.

The project review is currently in the discovery and analysis phase, during which Energy Commission staff makes a detailed examination of the issues that may occur, analyzes project impacts and potential mitigation measures.

Over the coming months, the Energy Commission will conduct a number of public workshops and hearings on the proposal to determine whether the project should be approved for construction and operation and, if so, under what set of conditions. These workshops 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 the meeting.

AGENCY PARTICIPATION

Your agency's participation is encouraged by assisting in the identification of project issues which present concerns to your agency. Your willingness to cooperate with the project applicant and our staff in the resolution of these issues is highly valued. Energy Commission technical staff will soon be contacting your agency staff to understand if there are issues or information that need to be identified.

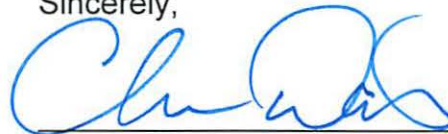
Local agencies may seek reimbursement for reasonable costs incurred in responding to these requests. (Cal. Code Regs., tit. 20, section 1715).¹

Enclosed is a copy of the AFC in electronic format (CD). If you would like to have a printed copy of the AFC sent to you, if you have questions, or if you would like to participate in the Energy Commission's review of the proposed project, please contact Christopher Meyer, the Energy Commission's Project Manager, at (916) 654-4640, or by email at christopher.meyer@energy.ca.gov. The status of the proposed project, copies of notices, a copy 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/alamitos/>. You can also receive e-mail notification of all project related activities and availability of reports by subscribing to the List Server at <http://www.energy.ca.gov/listservers/index.html>

Date: 12/10/15

Mailed to:
Agency List #7504

Sincerely,



Chris Davis, Siting Office Manager

¹ Please note that pursuant to Title 20, California Code of Regulations, section 1715 reimbursement is not available to state and federal agencies.