

DOCKETED

Docket Number:	13-AFC-01
Project Title:	Alamitos Energy Center
TN #:	202446
Document Title:	CEC initial request to NAHC
Description:	Energy Commission request to Native American Heritage Commission for check of Sacred Lands File and list of Native American contacts with potential interests in the project
Filer:	Matthew Braun
Organization:	California Energy Commission
Submitter Role:	Public Agency
Submission Date:	6/10/2014 12:54:16 PM
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From: Gates, Thomas@Energy
To: ["Dave Singleton";](#)
Subject: Alamitos Energy Center Project - request for contacts and records check
Date: Monday, March 10, 2014 3:01:00 PM
Attachments: [AES Vicinity Map.pdf](#)
[AES Project Site Map 2 topo.pdf](#)
[AES Project Site Map 1.pdf](#)

Dave,

Please find an Energy Commission request to check the sacred lands files and provide a NA contact list for the attached/described project.

Project: Alamitos Energy Center (AEC)

County: Los Angeles County

Quad Map Name: Los Alamitos USGS Quad 7.5 minute

Range, Township and Sections: T5S, R12W Sections 1 and 2*

*On the quad map, the section '2' number is covered by Studebaker Road.

Agency: California Energy Commission

Contact:

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NOTE: Recently the project description has changed and the sanitary waste water pipeline is now removed from the project. The language, to be deleted, is identified below in red. The language is included here so that NAHC can see how it correlates to the attached maps where the ability to remove the wastewater pipeline from the maps is not readily available.

ALAMITOS PROJECT DESCRIPTION

The AEC is a proposed natural gas-fired, fast starting, combined-cycle gas-turbine,

air-cooled generating facility with a net generating capacity of 1,936 megawatts (MW) and gross generating capacity of 1,995 MW. The project would consist of four 3-on-1 combined-cycle gas-turbine power blocks of twelve natural gas-fired combustion-turbine generators, twelve heat recovery steam generators, four steam-turbine generators, four air-cooled condensers, and related ancillary equipment. The AEC is proposed to use air-cooled condensers for cooling, completely eliminating the existing ocean water once-through cooling system. 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. Natural gas would be supplied to the AEC via the existing offsite 30-inch-diameter, high-pressure pipeline owned and operated by SoCalGas that currently serves the AGS. 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.

The AEC would include the following principal design elements:

- twelve Mitsubishi Power Systems America (MPSA) 501DA combustion-turbine generators (CTG) with a nominal rating of approximately 119 MW each. The CTGs would be equipped with evaporative coolers on the inlet air system and dry low oxides of nitrogen (NO_x) combustors;
- four single-cylinder steam-turbine generators (STG) with a nominal rating of approximately 143 MW each;
- twelve heat recovery steam generators (HRSGs). Each HRSG would be equipped with a selective catalytic reduction (SCR) unit in the outlet ductwork for the control of NO_x emissions and an oxidation catalyst to control carbon

monoxide (CO) and volatile organic compound (VOC) emissions;

- four air-cooled condensers and four closed-loop cooling fin fan coolers;
- four 230-kV interconnections to the existing SCE switchyard, which is adjacent to the site;
- direct connection to an existing SoCalGas 30-inch-diameter natural gas pipeline;
- demolition of AGS Units 1–6 and retired AGS Unit 7;
- demolition of ancillary facilities and selected existing warehouses;
- connection to existing onsite potable water line; and
- recontouring of two existing retention basins and the existing outfalls to the San Gabriel River.

ALAMITOS DEMOLITION AND CONSTRUCTION SCHEDULE

If the AEC AFC is approved by the Energy Commission, demolition of Alamitos Generating Station (AGS), and construction activities at the project site are anticipated to last 139 months, from the first quarter of 2016 to the third quarter of 2027.

The AEC would include the following principal schedule elements:

- demolition of the old AGS unit 7 is currently scheduled to begin the first quarter of 2016;
- construction of the new ACE power block 1 is currently scheduled to begin the third quarter of 2016, with commercial operations currently scheduled to begin the Second Quarter of 2019;
- construction of the new ACE power block 2 is currently scheduled to begin the fourth quarter of 2016, with commercial operations currently scheduled to begin the Second Quarter of 2019;
- demolition of old AGS Units 5&6 is currently scheduled to begin the fourth quarter of 2018;
- construction of the new ACE power block 3, is currently scheduled to begin the first quarter of 2020, with commercial operations currently scheduled to begin the third quarter of 2022;
- demolition of the old AGS units 3&4 begin the first quarter of 2022;
- construction of new AEC Block 4 begins the second quarter of 2023, with commercial operations beginning the fourth quarter of 2025; and

demolition of old AGS units 1&2 is currently scheduled to be begin the third quarter of 2025.

The construction plan is based on a single shift composed of a 10-hour workday, Monday through Friday, and an 8-hour shift on Saturdays. There will be an average and peak workforce of approximately 146 and 447, respectively, comprising construction and demolition craft people, heavy equipment operators, support, and construction management personnel on site.