

CALIFORNIA ENERGY COMMISSION

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



**STATE OF CALIFORNIA
 ENERGY RESOURCES CONSERVATION
 AND DEVELOPMENT COMMISSION**

In the Matter of:)	
OTAY MESA ENERGY CENTER)	Docket No. 98-AFC-5C
)	Order No.
OTAY MESA ENERGY CENTER, LLC)	ORDER APPROVING a Petition to Amend Hot Gas Path Components

On May 26, 2015, Otay Mesa Energy Center, LLC (Otay Mesa, LLC) submitted a Petition to Amend with the California Energy Commission (Energy Commission), requesting to amend the Final Decision for the Otay Mesa Energy Center (Otay Mesa). The modifications proposed in the petition would replace certain combustion section components (turbine blades, nozzles and associated structural elements) with Advanced Gas Path (AGP) components on the two existing combustion turbines at Otay Mesa. The AGP replacement components will increase the combined generating capability of both turbines by approximately 15 megawatts (MW) and will improve the heat rate of the entire plant.

The San Diego Air Pollution Control District determined that replacement of the hot gas components with upgraded materials would be considered routine maintenance of the equipment and no permitting actions would be required. In addition, no changes to the project's Air Quality Conditions of Certification would be required for the replacements.

STAFF RECOMMENDATION

Energy Commission staff reviewed the petition, finds that it complies with the requirements of Title 20, section 1769 (a) of the California Code of Regulations, and recommends approval of Otay Mesa, LLC's petition to modify Otay Mesa. Staff has determined that the modifications could produce thermal exhaust plumes of 4.8 meters per second at an elevation of 1,020 feet above ground level where low-flying aircraft could experience moderate to severe turbulence. Staff is proposing two new conditions of certification (**TRANS-7** and **TRANS-8**), similar to those adopted by the Energy Commission for other facilities, including the adjacent Pio Pico Energy Center (11-AFC-01), to provide pilots using Brown Field Municipal Airport with warning of potential aviation hazards from direct, low-altitude overflight of Otay Mesa.

ENERGY COMMISSION FINDINGS

Based on staff's analysis and proposed new conditions of certification **TRANS-7** and **TRANS-8**, the Energy Commission concludes that the proposed modifications will not result in any significant impacts to public health and safety, or to the environment. The Energy Commission finds that:

- The petition meets all the filing criteria of Title 20, section 1769 (a), of the California Code of Regulations, concerning post-certification project modifications;
- The modification will not change the findings in the Energy Commission's Final Decision, pursuant to Title 20, section 1755, of the California Code of Regulations;
- The project will remain in compliance with all applicable laws, ordinances, regulations, and standards, subject to the provisions of Public Resources Code, section 25525;
- The modification proposed in the petition would increase the combined generating capability of both turbines by approximately 15 MW and improve the heat rate of the entire plant;
- The proposed modifications would be beneficial to the public because the generating capability would increase by 15 MW and Otay Mesa would continue to meet all existing heat input requirements and emission limits; and
- The proposed modification is justified because the AGP technology was not available at the time of the April 2001 Energy Commission Decision.

The project owner provided comments on the staff's analysis and included proposed edits to Conditions of Certification **TRANS-7** and **TRANS-8**. Staff agreed with the changes and incorporated the edits in the proposed conditions. The revised agreed upon conditions are provided below.

CONCLUSION AND ORDER

The California Energy Commission hereby adopts staff's recommendations and approves the addition of new conditions of certification **TRANS-7** and **TRANS-8** to the Commission Decision for the Otay Mesa Energy Center. Single **bold and underlined** text identifies changes recommended in the previously published analysis for the Otay Mesa amendment. Double **bold and underlined** text identifies additional agreed upon changes made by staff.

TRANS- 7 Obstruction Marking and Lighting - The project owner shall install obstruction marking and lighting on the exhaust stacks consistent with Federal Aviation Administration (FAA) requirements.

Lighting shall be operational 24 hours a day, 7 days a week for the life of project operation. Upgrades to the required lighting configurations, types,

location, or duration shall be implemented consistent with any changes to FAA obstruction marking and lighting requirements.

Verification: No later than 60 days after the project owner completes replacement of the Advanced Gas Path components, the project owner shall submit to the CPM for approval final design plans that depict the required air traffic obstruction marking and lighting.

Within 60 days after CPM approval of the final design plans, the project owner shall install permanent obstruction marking and lighting consistent with FAA requirements and shall inform the CPM in writing within 10 days of installation that the lighting is ready for inspection.

TRANS-8 Pilot Notification and Awareness - The project owner shall initiate the following actions.

- Submit a letter to the FAA requesting a Notice to Airmen (NOTAM) be issued advising pilots of the location of the Otay Mesa Energy Center and recommending avoidance of overflight of the project site below 2,000 feet Above Ground Level (AGL). The letter should also request that the NOTAM be maintained in active status until the Los Angeles Section Chart and Airport Facility Directories (AFDs) identified below have been updated;
- Submit a letter to the FAA requesting a power plant depiction symbol be placed at the Otay Mesa Energy Center site location on the Los Angeles Sectional Chart with a notice to “avoid overflight below 2,000 feet AGL”;
- Submit a request to the Brown Field Municipal Airport Manager to add a new remark to the Automated Surface Observing System (ASOS) identifying the location of the Otay Mesa Energy Center and advising pilots to avoid direct overflight below 2,000 feet AGL as they approach or depart the airport; and
- Request that Southern California Terminal Radar Approach Control (TRACON) and/or the San Diego Air Traffic Control Center submit aerodrome remarks describing the location of the Otay Mesa Energy Center and advising against direct overflight below 2,000 feet AGL to the:
 1. FAA Airport/Facility Directory – Southwest U.S.;
 2. Jeppesen Sanderson Inc. (Airway Manual Services - Western U.S. Airport Directory); and
 3. Pilot’s Guide to California.

Verification: No later than 60 days after the project owner completes replacement of the Advanced Gas Path components, the project owner shall submit draft

language for the letters of request to the FAA (including Southern California TRACON) and Brown Field Municipal Airport to the CPM for review and approval.

Within 60 days after CPM approval of draft language for the letters of request to the FAA (including Southern California TRACON), the project owner shall submit the letters of request to the FAA (including Southern California TRACON) and Brown Field Municipal Airport. These letters shall request a response within 30 days which should include a timeline for implementing the suggested remarks in identified publications and designation on the chart mentioned above. The project owner shall submit copies of these requests to the CPM. A copy of any resulting correspondence shall be submitted to the CPM within 10 days of receipt. If the FAA does not respond within 30 days, the project owner shall contact the CPM.

IT IS SO ORDERED.

CERTIFICATION

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of an Order duly and regularly adopted at a meeting of the California Energy Commission held on **February 10, 2016**.

AYE:

NAY:

ABSENT:

ABSTAIN:

Secretariat