

CALIFORNIA ENERGY COMMISSION

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



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

DOCKET**98-AFC-4C**DATE APR 11 2012RECD. JUNE 11 2012

In the Matter of:)

Sunrise Power Project)

Docket No. 98-AFC-4C)

Order No. 12-0411-4)

Sunrise Power Company, LLC)

ORDER APPROVING a Petition to Amend
Air Quality Conditions of Certification)

On August 13, 2010, Sunrise Power Company, LLC, the owner/operator of the Sunrise Power Project, submitted a petition requesting to modify the Air Quality Conditions of Certification contained in the California Energy Commission's (Energy Commission) Final Decision. The proposed modifications will allow the project owner to operate utilizing modified startup and shutdown parameters. The modifications will also ensure consistency between the Energy Commission Conditions of Certification and the permit to operate issued by the San Joaquin Valley Air Pollution Control District (SJVAPCD) on March 11, 2011. Project emission rates and mass emissions are not changing.

STAFF RECOMMENDATION

Energy Commission staff reviewed the petition and found that it complies with the requirements of Title 20, Section 1769(a) of the California Code of Regulations and recommended approval of Sunrise Power's petition to modify the Sunrise Power Project and amend related Air Quality Conditions of Certification.

ENERGY COMMISSION FINDINGS

Based on staff's analysis, the Energy Commission concluded that the proposed changes will not result in any significant impact to public health and safety, or the environment. The Energy Commission found 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;
- 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 change will be beneficial to the public and the project owner because the Sunrise Power Project will continue to operate in compliance with both the Air District Permit and the Energy Commission Conditions of Certification;
- There has been a substantial change in circumstances since the Energy Commission certification, and the change is based on information that was not available to the parties prior to Energy Commission certification; and
- The changes will implement compliance measures and administrative measures. Emission rates and mass emissions are not changing. The changes will also reestablish consistency between the Energy Commission conditions and the permit to operate issued by the Air District.

CONCLUSION AND ORDER

The California Energy Commission hereby adopts Staff's recommendations and approves the following changes to the Commission Decision for the Sunrise Power Project. New language is shown as **bold and underlined**, and deleted language is shown in ~~strikeout~~.

CONDITIONS OF CERTIFICATION

AQ-10 Startup is defined as the period beginning with turbine initial firing. Shutdown is defined as the period beginning with initiation of turbine shutdown sequence and ending with cessation of firing of the gas turbine engine. Startup and shutdown durations shall not exceed a time period of 4 hours each **60 minutes for a hot startup, 128 minutes for a warm startup, and 230 minutes for a cold startup, and one hour for a shutdown,** per occurrence. [District Rule 2201 and 4001]

Verification: The project owner shall provide records of the emissions and operations as part of the quarterly reports of Condition AQ-31.

~~**AQ-26** The source test plans for the initial and seven-year source test shall include a method for measuring the CO/VOC surrogate relationship that will be used to demonstrate compliance with VOC lbs/hr, lbs/day, and lbs/twelve-month rolling average emission limits upon combined cycle operation. [District Rule 2201]~~

~~**Verification:** The Project owner shall provide a source test plan to the CPM and District for the CPM and District approval 15 days prior to testing. Initial source testing shall occur no later than 90 days following the first day of combined cycle operation.~~

~~**AQ-49** By two hours after turbine initial firing, CTG exhaust emissions shall not exceed any of the following:~~

~~NO_x (as NO₂): 10.3 ppmv @ 15% O₂
CO: 25 ppmv @ 15% O₂~~

~~[District Rule 4703] Compliance with the aforementioned limits will commence on the clock hour following the 120th minute after initial firing. These emission limits are three hour rolling averages.~~

~~**Verification:** The project owner shall provide records of the emissions as part of the quarterly reports of Condition AQ-31.~~

AQ-59 Compliance with PM10 emission limit shall be determined by circulating water sample analysis by independent laboratory within 90 days of initial operation and weekly quarterly thereafter. [District Rule 1081]

Verification: The project owner shall compile the required daily PM10 emissions data and maintain the data for a period of five years. The project owner shall make the site available for inspection by representatives of the District, CARB and the Commission.

Conditions of Certification AQ-62 through AQ-65 apply to the 160 MW natural gas-fired combustion turbine generators.

AQ-62 Reduced load period is defined as the time during which a gas turbine is operated at less than rated capacity in order to change the position of the exhaust gas diverter gate. Each reduced load shall not exceed one hour. [District Rule 4703, 3.23] Federally Enforceable through Title V Permit

Verification: The project owner shall make the site available for inspection by representatives of the District, CARB and the Commission.

AQ-63 The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703, 5.3.2] Federally Enforceable Through Title V Permit

Verification: The project owner shall make the site available for inspection by representatives of the District, CARB and the Commission.

AQ-64 The owner or operator shall submit to the District information correlating the NOx control system operating parameters to the associated measured NOx output. The information must be sufficient to allow the District to determine compliance with the NOx emission limits in the conditions of certification when the CEMS is not operating properly. [District Rule 4703, 6.2.5] Federally Enforceable Through Title V Permit

Verification: The project owner shall provide the required information as part of the quarterly reports of Condition AQ-31.

AQ-65 The owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local startup and stop time, length and reason for reduced load periods, total hours of operation, the type and quantity of fuel used, and duration of each startup and each shutdown time period. [District Rule 4703, 6.2.6 & 6.2.7] Federally Enforceable Through Title V Permit

Verification: The project owner shall provide the required information as part of the quarterly reports of Condition AQ-31.

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 April 11, 2012.

AYE: Weisenmiller, Douglas, Peterman

NAY: None

ABSENT: None

ABSTAIN: None

*Harriet Kallemeyn,
Secretariat*