

CALIFORNIA ENERGY COMMISSION

1518 NINTH STREET
SACRAMENTO, CA 95814-5512STATE OF CALIFORNIA
ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION

DOCKET 00-AFC-2 C
DATE JUN 29 2006
RECD. JUL -7 2006

In the Matter of:)	
Mountainview Power Project)	Docket No. 00-AFC-2C
)	
Mountainview Power Company, LLC)	Order No. 06-0629-26
)	ORDER APPROVING Petition to Increase the
)	Volatile Organic Compound (VOC) Emissions
)	Limits and Change the Equipment Description
)	of the Emergency Diesel Generator

Mountainview Power Company, LLC the owner/operators of the Mountainview Power Project, has requested to increase the volatile organic compound emissions limits within Conditions of Certification Air Quality 11 and 12 and to delete Condition of Certification Air Quality 19. The modification will allow Mountainview Power Company, LLC to operate the project while remaining in compliance with their conditions of certification. The public will also benefit in that the project owners have purchased additional emission reduction credits to offset the increased emissions from the project. The power plant will still operate within the limits set by the South Coast Air Quality Management District for best available control technology for VOC emissions.

STAFF RECOMMENDATION

Energy Commission staff have reviewed the petition and find that it complies with the requirements of Title 20, Section 1769(a) of the California Code of Regulations and recommends approval of Mountainview Power Company, LLC's petition to modify the Mountainview Power Project and amend the related conditions of certification.

COMMISSION FINDINGS

Based on staff's analysis, the Energy Commission concludes that the proposed change will not result in any significant impact to public health and safety, or the environment. The Energy Commission finds that:

- o The petition meets all the filing criteria of Title 20, section 1769(a) of the California Code of Regulations concerning post-certification project modifications.
- o 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 project owner because it will allow them to operate the project while remaining in compliance with their conditions of certification.
- The change is based on information that was not available to the parties prior to Energy Commission certification. The change resulted from operational testing results indicating that the plant could not meet the lower than BACT emissions limits set in the permit for VOC emissions.

CONCLUSION AND ORDER

The California Energy Commission hereby adopts Staff's recommendations and approves the following change to the Mountainview Power Project Decision. New language is shown **double-underlined and bolded**, and deleted language is shown in ~~strikeout~~.

CONDITIONS OF CERTIFICATION

AQ-11 Except during startup, shutdown, Cold-Startup, Combustor-Tuning, ~~and~~ initial commissioning and the exceptions noted below, emissions from each gas turbine exhaust stack shall not exceed the following limits:

NOx (measured as NO2):	2.0 ppm at 15% oxygen on a dry basis averaged over one hour and 14.22 lbs/hour.
CO:	6.0 ppm at 15% oxygen on a dry basis averaged over 1 hours and 25.91 lbs/hr.
SOx (measured as SO2):	1.42 lbs/hr
VOC:	<u>4.96</u> 3.47 lbs/hr
PM10:	11.0 lbs/hr
Ammonia:	5 ppm at 15% oxygen on a dry basis

Exceptions:

The NOx limit shall not apply to the first fifteen 1-hour average NOx emissions that are above 2.0 ppmv, dry basis at 15% O2, in any rolling 12-month period for each combustion gas turbine provided that it meets all of the following requirements A, B, C and D:

- A. This equipment operates under any one of the qualified conditions described below:
 - a) Rapid combustion turbine load changes due to the following conditions:
 - Load changes initiated by the California ISO or a successor entity when the plant is operating under Automatic Generation Control; or

- Activation of a plant automatic safety or equipment protection system which rapidly decreases turbine load
 - b) The first two 1-hour reporting periods following the initiation/shutdown of an evaporative cooler supply pump
 - c) The first two 1-hour reporting periods following the initiation of HRSG duct burners.
 - d) Events as the result of technological limitation identified by the operator and approved in writing by the AQMD Executive Officer or his designees and the CPM.
- B. The 1-hour average NO_x emissions above 2.0 ppmv, dry basis at 15% O₂, did not occur as a result of operator neglect, improper operation or maintenance, or qualified breakdown under Rule 2004(i).
- C. The qualified operating conditions described in (A) above must be recorded in the plant's operating log within 24 hours of the event, and in the CEMS by 5 p.m. the next business day following the qualified operating condition. The notations in the log and CEMS must describe the data and time of entry into the log/CEMS and the plant operating conditions responsible for NO_x emissions exceeding the 2.0 ppmv 1-hour average limit.
- D. The 1-hour average NO_x concentration for periods that result from a qualified operating condition does not exceed 25 ppmv, dry basis at 15 percent O₂

All NO_x emissions during these events shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit.

Verification: The project owner shall submit emission calculations to demonstrate compliance for the NO_x and CO limits and source tests, as required in Condition AQ-15, AQ-16 and AQ-17, to demonstrate compliance with SO_x, VOC and PM₁₀ emission limits in the Quarterly Operational Reports (see AQ-8). Within 5 working days of the occurrence of an exception as described within this Condition, the owner/operator shall notify the CPM. Within 21 working days, of the occurrence of an exception as described within this Condition, the owner/operator shall submit to the CPM a complete report of the exception event. That report must include, but is not limited to: the date, time, duration and cause of the occurrence, the emissions (in total mass and hourly concentration normalized to 15% O₂) because of the occurrence and the evidence required in element (B) above.

AQ-12 Except for initial commissioning, but including startup, shutdowns, Cold-Startups and Combustor-Tunings the emissions from each gas turbine exhaust stack shall not exceed the following limits:

CO	8,610 lbs per month
CO	694 lbs per day
VOC	<u>3,568</u> 2,498 lbs per month
PM10	7,725 lbs per month
SOx	1,005 lbs per month

Protocol: The project owner shall confirm compliance with the monthly limits by using the monthly fuel use data of each gas turbine and duct burner pair and the following emission factors:

VOC	<u>2.51</u> 1.76 lbs/mmscf
PM10	5.57 lbs/mmscf
SOx (measured as SO2):	0.71 lbs/mmscf

Compliance with the CO monthly limit shall be confirmed through the valid (per District Rule 218) CO CEMS or, absent valid CO CEMS, by the monthly fuel use data and the following emission factors:

During Commissioning	114.47	lbs/mmscf
Following Commissioning	13.10	lbs/mmscf

Verification: The project owner shall submit the monthly fuel use data and emission calculations to the CPM in the Quarterly Operation Reports (AQ-8).

The following Conditions of Certification pertain to the following equipment:

Internal combustion engine, emergency power, diesel Caterpillar 3612, ~~4^o timing retard,~~ 3512B-LE2200, turbocharged, aftercooled, ~~5900~~ 2,200 BHP A/N 366155 (ID. No. D54).

AQ-19 ~~The project owner shall set and maintain the fuel injection timing of the emergency IC engine at 4^o retarded relative to standard timing.~~

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

IT IS SO ORDERED.

Dated: June 29, 2006

STATE ENERGY RESOURCES
CONSERVATION AND
DEVELOPMENT COMMISSION



JACKALYNE PFANNENSTIEL
Chairman