



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 · www.aqmd.gov

## NOTICE OF INTENT TO ISSUE PERMITS PURSUANT TO SCAQMD RULES 212 AND 3006

This notice is to inform you that the South Coast Air Quality Management District (SCAQMD) has received permit applications from the Canyon Power Plant to revise the permits to operate to increase the operating schedule limits for the four identical natural-gas fired electric generating gas turbines. Effective January 1, 2015, the California Independent System Operator (CAISO) Flexible Resource Adequacy Criteria and Must Offer Obligation (FRAC-MOO) will require the Canyon Power Plant to provide a significant amount of flexible generation capacity to serve as backup for solar and wind generation to maintain system reliability. After detailed review and evaluation of the applications, SCAQMD has determined that the proposed project complies with all applicable federal, state and local air quality rules and regulations. Therefore, SCAQMD intends to issue the revised Permits to Operate and to revise the Title V permit for this facility upon the completion of review by the EPA and the California Energy Commission (CEC). In addition, prior to issuance of the final Title V permit, SCAQMD is providing an opportunity for public comments on the SCAQMD's proposed decision.

The SCAQMD is the air pollution control agency for the four-county region including all of Orange County and non-desert parts of Los Angeles, Riverside and San Bernardino Counties. Anyone wishing to install or modify equipment that could control or be a source of air pollution within this region must first obtain a permit from the SCAQMD. Under certain circumstances, before a permit is granted, a public notice, such as this, is prepared by the SCAQMD. For this project, public notification is required in accordance with SCAQMD Rule 212(c)(2) and Rule 212(g) because the increased emissions from the gas turbines exceed the public notice thresholds for these rules. Public notification is required by SCAQMD Rule 3006(a) because there will be a significant revision to the facility's existing Title V air permit.

The SCAQMD has evaluated the permit applications listed below and determined that the proposed project meets or will meet all applicable federal, state and SCAQMD air quality rules and regulations as described below:

**FACILITY:** Canyon Power Plant  
Facility ID No. 153992  
3071 E. Miraloma Avenue  
Anaheim, CA 92806

**CONTACT:** Manny Robledo  
Electric Operations Manager  
Anaheim Public Utilities Dept.  
201 S. Anaheim Blvd, M.S. #802  
Anaheim, CA 92805

### SCAQMD APPLICATION NUMBERS

Application Number	Equipment Description
555828	GE LM6000PC Sprint Gas Turbine No. 1
555829	GE LM6000PC Sprint Gas Turbine No. 2
555830	GE LM6000PC Sprint Gas Turbine No. 3
555831	GE LM6000PC Sprint Gas Turbine No. 4
555832	Internal Combustion Engine, Emergency
555827	Title V/RECLAIM Significant Permit Revision

## **PROJECT DESCRIPTION**

The Canyon Power Plant is a power plant with the capability of generating a total of 200 megawatts (MW) of electrical power consisting of four simple cycle GE LM6000PC Sprint gas turbines with associated air pollution control systems, one 1141 brake horsepower diesel fueled emergency black start engine, and miscellaneous equipment. The applications propose to increase the operating schedule limits for the four turbines because the CAISO will require the facility to provide a significant amount of flexible generation capacity to serve as backup for solar and wind generation to maintain system reliability. The applications also propose to reduce the operating schedule limit for the black start engine.

## **EMISSIONS**

During normal operation, the increase in total potential maximum daily, monthly, and annual emissions of criteria pollutants resulting from the increase in operating schedule for the turbines is estimated not to exceed the emission levels listed in the table below. In addition, the facility generates emissions of greenhouse gases (GHGs). The total quantity of GHGs is calculated using the global warming potential for each compound and expressed in an amount equivalent to Carbon Dioxide (CO<sub>2</sub>) emissions (CO<sub>2</sub> equivalent).

Pollutant	Max Potential Emissions Increase (Tons)		
	Daily	Monthly	Annual
Nitrogen Oxides (NOx)	0.108	3.25	15.36
Carbon Monoxide (CO)	0.109	3.28	20.32
Volatile Organic Compounds (VOC)	0.019	0.57	4.12
Particulate Matter (diameter less than 10 microns, PM <sub>10</sub> or diameter less than 2.5 microns, PM <sub>2.5</sub> )	0.016	0.48	2.46
Sulfur Oxides (SOx)	0.005	0.15	1.12
Carbon Dioxide equivalent (CO <sub>2</sub> equivalent)	530.09	15,902.70	190,975.84

The applicant is required to provide emission offsets for the increases in VOC and PM<sub>10</sub> emissions. The required emission offsets have been provided in the form of emission reduction credits (ERCs). The South Coast Air Basin meets and is in attainment with ambient air quality standards for CO, so no CO offsets are required. The applicant is required to provide emission offsets for the increase in NOx emissions. Offsets have been provided in the form of RECLAIM Trading Credits (RTCs) purchased through the Regional Clean Air Incentive's Market (RECLAIM).

As a result of burning natural gas in the gas turbines, emissions from the turbines also contain small quantities of pollutants that are considered air toxics under SCAQMD Rule 1401--New Source Review of Toxic Air Contaminants. Therefore, a health risk assessment (HRA) has been performed on each turbine based on the proposed operating schedule. The health risk assessment uses health protective assumptions in estimating maximum risk to an individual person. Even assuming this health protective condition, the evaluation shows that the maximum individual cancer risk (MICR) from each gas turbine is less than one-in-one million and in compliance with SCAQMD's risk thresholds listed in Rule 1401. Also, acute and chronic indices, which measure non-cancer health impacts, are less than one. According to the state health experts, a hazard index of one or less means that the surrounding community including the most sensitive individuals such as very young children and the elderly will not experience any adverse health impacts due to exposure to these emissions. These levels of estimated risk are below the threshold limits of SCAQMD Rule 1401 (d) established for new or modified sources. The HRA results are shown in the table below:

### Health Risks

Equipment	MICR		Non-Cancer Hazard Index	
	Resident	Worker	Chronic	Acute
Gas Turbine No. 1	0.0426E-06	0.0271E-06	3.18E-04	1.54E-03
Gas Turbine No. 2	0.0448E-06	0.0262E-06	3.07E-04	1.49E-03
Gas Turbine No. 3	0.0470E-06	0.0258E-06	3.02E-04	1.46E-03
Gas Turbine No. 4	0.0493E-06	0.0260E-06	3.04E-04	1.47E-03
Rule 1401 Limit	1.0E-06		1.0	

Based on the result of our detailed analysis and evaluation, the SCAQMD has determined that the proposed project complies with all applicable federal, state and SCAQMD air quality Rules and Regulations and, therefore, SCAQMD intends to issue the Permits to Operate to increase the operating schedule limits for the turbines. In addition, prior to issuance of a final permit, SCAQMD is providing an opportunity for a 30-day public comment period, and review periods for the EPA and the CEC. SCAQMD will consider issuance of the final permit only after all pertinent public, EPA and CEC comments, if any, have been received and considered.

This facility is classified as a federal Title IV (Acid Rain) and Title V facility. **Pursuant to SCAQMD Rule 3006 – Public Participation, any person may request a proposed permit hearing on an application for an initial, renewal, or significant revision to a Title V permit by filing with the Executive Officer a complete Hearing Request Form (Form 500G) for a proposed hearing no later than January 2, 2015.** This form is available on the SCAQMD website at <http://www.aqmd.gov/docs/default-source/grants/500-g-form.pdf?sfvrsn=2>, or alternatively, the form can be made available by contacting Ms. Vicky Lee at the e-mail and telephone number listed below. In order for a request for a public hearing to be valid, the request must comply with the requirements of SCAQMD Rule 3006 (a)(1)(F). On or before the date the request is filed, the person requesting a proposed permit hearing must also send by first class mail a copy of the request to the facility address and contact person listed above.

The proposed permits and other information are available for public review at the SCAQMD's headquarters in Diamond Bar, and at the Anaheim Central Library, 500 W. Broadway, Anaheim, CA 92805. Additional information including the facility owner's compliance history submitted to the SCAQMD pursuant to California Health and Safety Code Section 42336, or otherwise known to the SCAQMD, based on credible information, is available at the SCAQMD for public review by contacting Ms. Vicky Lee (vlee1@aqmd.gov), Engineering and Compliance, South Coast Air Quality Management District, 21865 Copley Drive, Diamond Bar, CA 91865-4182, (909) 396-2284. A copy of the draft Permits to Operate can also be viewed at <http://www3.aqmd.gov/webappl/publicnotices2/Search.aspx>. Anyone wishing to comment on the air quality elements of the permits must submit comments in writing to the SCAQMD at the above address, attention Mr. Andrew Lee. **Comments must be received no later than January 16, 2015.** If you are concerned primarily about zoning decisions and the process by which the facility has been sited in this location, contact the local city or county planning department for the city or unincorporated county in which the facility is located. For your general information, anyone experiencing air quality problems such as dust or odor can telephone in a complaint to the SCAQMD 24 hours a day by calling toll free 1-800-CUT-SMOG (1-800-288-7664).