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**San Diego County Air Pollution Control District**

10124 Old Grove Rd  
San Diego, CA 92131-1649  
(858) 586-2600

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**TITLE V OPERATING PERMIT  
APCD2003-TVP-974488**

**Issued To:**

Cabrillo Power I LLC  
Site ID # APCD1982-SITE-00195

**Site Address**

4600 Carlsbad Blvd.  
Carlsbad, CA. 92008  
(760) 710-2129

**Mailing Address**

Same as above

**Responsible Official** – Jerry Carter, Plant Manager

**Facility Contact** – Tim Sisk

**Permit Information Contact** – Tim Sisk

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Issued by the San Diego County Air Pollution Control District on \_\_\_\_\_

This Title V Operating Permit expires on \_\_\_\_\_

Signed by: \_\_\_\_\_

Jim Swaney, P.E., Chief of Engineering

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## **PREAMBLE**

This Title V Operating Permit consists of this document and all appendices, including District permits incorporated by reference. The facility is subject to all applicable requirements identified within this permit, unless a specific permit shield is specified within this permit. If an applicable requirement is omitted from this permit, the facility is still obligated to comply with such an applicable requirement. The permittee must comply with all of the terms listed in each section of this permit.

This permit contains five major sections: Section I contains the Regulation XIV requirements required to carry out the Title V Operating Permit program. Section II contains the requirements that are applicable to the facility on a facility-wide basis. Section III contains the requirements that are applicable to individual emission units which have been issued District permits or District registration, or which have been determined to be insignificant emission units. Section IV contains terms and requirements pertaining to variance procedures and compliance schedules, if applicable to the facility. Section V contains three appendices. Appendix A contains all the District permits incorporated within this permit. Appendix B contains a table of all SIP approved and District approved rules. Appendix C contains a list of abbreviations used within this permit.

Copies of the Rules and Regulations of the Air Pollution Control District of San Diego County and the Rules and Regulations for San Diego County contained in the State Implementation Plan (SIP) approved by EPA may be obtained at the District. Copies are also available for review at the following locations:

SD Air Pollution Control District (Library & Public Review Area)	County of SD Law Library (Downtown)	County of SD Law Library (North County)
10124 Old Grove Rd	1105 Front St.	325 S. Melrose Suite 300
San Diego, CA 92131-1649	San Diego, CA 92101	Vista, CA 92083
(858) 586-2600	(619) 531-3900	(760) 940-4386

The current Rules and Regulations of the Air Pollution Control District of San Diego County may also be viewed and downloaded using the following internet address:

[www.sdapcd.org](http://www.sdapcd.org)

The following addresses should be used to submit any certifications, reports or other information required by this permit:

SD Air Pollution Control District Compliance Division 10124 Old Grove Rd San Diego, CA 92131-1649	USEPA Region IX Director of the Air Division Attn: Air-3 75 Hawthorne Street San Francisco, CA 94105
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## **SECTION I. REGULATION XIV PERMIT REQUIREMENTS**

### **A. ADMINISTRATIVE PERMIT TERMS**

1. This Title V Operating Permit expires 5 years from date of issuance. [Rule 1410]
2. Commencing or continuing operation under this permit to operate shall be deemed acceptance of all terms and conditions specified within this permit. This does not limit the right of the applicant to seek judicial review or seek federal EPA review of a permit term or condition. [Rule 1421]
3. This permit may be modified, revoked, reopened and reissued, or terminated by the District for cause. [Rule 1421]
4. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay the applicability of any permit condition. [Rule 1421]
5. This permit does not convey any property rights of any sort, or any exclusive privilege. [Rule 1421]
6. The need for the permittee to halt or reduce a permitted activity in order to maintain compliance with any term or condition of this permit shall not be a defense for any enforcement action brought as a result of a violation of any such term or condition. [Rule 1421]
7. In the event of challenge to any portion of this permit, the rest of the permit remains valid. [Rule 1421]
8. For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any applicable requirement in this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [Rule 1421]

### **B. RENEWAL REQUIREMENTS AND TERMS**

1. The permittee shall submit a complete application for renewal of this permit to the Air Pollution Control Officer at least 12 months, but not more than 18 months, prior to permit expiration. [Rule 1410]
2. If an administratively complete application for renewal of this permit has been submitted to the Air Pollution Control Officer within the timeframe specified in Section I.B.1. , the terms and conditions of this permit shall remain in effect and the source may continue operations under these terms and conditions until the Air Pollution Control Officer issues or denies the permit renewal. [Rule 1410]

**C. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS**

1. The permittee shall provide the District access to the facility and all equipment subject to this permit, and access to all required records pursuant to California Health and Safety Code Section 41510. [Rule 1421]
2. The permittee shall maintain all records required by this permit including any calibration, maintenance, and other supporting information and copies of all reports required by this permit for at least five (5) years from date of creation. [Rule 1421]
3. The permittee shall submit monitoring and recordkeeping summary reports and all other monitoring and recordkeeping reports required by this permit to the District every six months, unless a shorter time frame is required by a specific permit condition contained in Section III of this permit. Unless other dates are specified in Section III, reports for data required to be collected from January 1 through June 30, shall be submitted no later than September 1 of the calendar year, and reports for data required to be collected from July 1 through December 31, shall be submitted no later than March 1 of the following calendar year. The report for the final six months of the year may be consolidated with the annual compliance certification required below. All instances of noncompliance from federally enforceable applicable requirements shall be clearly identified in these reports. (Timely completion of District Certification Reports Form J1 and Form J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
4. Each calendar year, the permittee shall submit to the District and to the federal EPA an annual compliance certification, in a manner and form approved in writing by the District, for the previous calendar year that includes the identification of each applicable term or condition of the final permit for which the compliance status is being certified, the compliance status and whether the facility was in continuous or intermittent compliance during the previous calendar year, identification of the method used to determine compliance during the previous calendar year, and any other information required by the District to determine the compliance status. The annual compliance certification for a calendar year shall be submitted no later than March 1 of the following calendar year and may be consolidated with the monitoring and recordkeeping report for the last six months of the year for which compliance is certified. (Timely completion of District Certification Reports Form J1 and Form J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
5. Any report submitted to the District or federal EPA pursuant to this permit to comply with a federally enforceable applicable requirement, shall be certified by a responsible official stating that, based on information and belief formed after reasonable inquiry, the report is true, accurate and complete. [Rule 1421]
6. The permittee shall make any trade secret designations of records, documents, or other information submitted to the District or federal EPA in accordance with District Rule 176. [Rule 176]
7. The permittee shall report all deviations from any and all federally enforceable permit terms and conditions including: (a) breakdowns, whether or not they result in excess emissions, (b) deviations that result in excess emissions of any regulated air pollutant, and (c) deviations from monitoring, recordkeeping, reporting and other administrative requirements that do not result in excess emissions. For deviations that result from breakdowns under District Rule 98, the

permittee shall report the breakdown within two hours of detection of the breakdown and provide a follow-up written report after corrective actions have been taken. For deviations not due to a breakdown but which result in excess emissions, the permittee shall report the deviation within ten calendar days of detection. For all other deviations where no specific time frame for reporting a deviation applies, the permittee shall report the deviation at the time of the next semi-annual monitoring summary or annual compliance certification, whichever occurs first. If an underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, then the criteria for the applicable requirement shall apply. The report must include the probable cause of such deviations and any corrective actions or preventive measures taken. [Rule 1421]

#### **D. GENERAL PERMIT REQUIREMENTS**

1. The permittee shall comply with all terms and conditions of this permit. This permit consists of this document and Appendices A, B and C. Any noncompliance with the federally applicable terms and conditions of this permit shall constitute a violation of the federal Clean Air Act. Noncompliance with any federally applicable permit term or condition of this permit is grounds for federal enforcement action or enforcement action by the District; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Noncompliance with any District permit term or condition is grounds for enforcement action by the District. [Rule 1421]
2. Upon a written request by the District, the permittee shall furnish to the District any information needed to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit; any information required to determine compliance with this permit; or any records required to be maintained pursuant to this permit. Such information shall be provided within a reasonable time, as specified within the District's written request. [Rule 1421]
3. The permittee shall pay annual fees in accordance with District Rule 40. [Rule 1421]
4. The permittee shall provide access, facilities, utilities and any necessary safety equipment for source testing and inspection upon request from the District. [Rule 19]
5. This permit shall be maintained on-site at all times and be made available to the District upon request. [Rule 1410]
6. The Rule Reference Table provided in Appendix B shall be used to determine whether a cited rule is a federally and District enforceable requirement or a District only enforceable requirement. Any new or revised District rule shall not be considered federally enforceable until the rule is approved by EPA into the SIP. In cases where SIP approval is pending for a revised District rule, the rule citation shall refer to both the current SIP approved rule and the revised District rule. [Rule 1421]

## SECTION II. FACILITY-WIDE REQUIREMENTS

### A. GENERAL PERMIT PROGRAM APPLICABLE REQUIREMENTS

The permittee shall comply with the applicable requirements specified in the Rules and Regulations cited below, unless specifically exempted by the same Rule or Regulation.

Regulation	Rule Citation	Title
SDCAPCD Reg. II	10	Permits Required
SDCAPCD Reg. II	19	Provision of Sampling & Testing Facilities
SDCAPCD Reg. II	19.3	Emission Information
SDCAPCD Reg. II	21	Permit Conditions
SDCAPCD Reg. IV	60	Circumvention
SDCAPCD Reg. V	98	Breakdown Conditions: Emergency Variance
SDCAPCD Reg. VIII	131	Stationary Source Curtailment Plan

### B. GENERAL PROHIBITORY REQUIREMENTS

The permittee shall comply with the generally applicable requirements specified in the Rules and Regulations cited below, unless specifically exempted by the same Rule or Regulation. These generally applicable requirements apply on a facility-wide basis to all permitted equipment, registered equipment, and insignificant activities. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more permitted emission units, the requirement is also included in Section III.A. of this permit.

Regulation	Rule Citation	Title
SDCAPCD Reg. IV	50	Visible Emissions
SDCAPCD Reg. IV	51	Nuisance
SDCAPCD Reg. IV	67.0	Architectural Coatings
SDCAPCD Reg. IV	67.17	Storage of Materials Containing VOC
SDCAPCD Reg. IV	71	Abrasive Blasting
SDCAPCD Reg. VI	101	Burning Control
40 CFR Part 82	Subpart F	Recycling and Emissions Reduction

### C. PERMIT SHIELDS

1. No permit shield applies.

### D. TITLE IV (ACID RAIN) REQUIREMENTS

1. The permittee shall not exceed any emission allowances that are lawfully held under Title IV of the Federal Clean Air Act or the regulations promulgated thereunder. [Rule 1421]
2. The combustion products from the boilers under Permits to Operate Nos, 792, 793, 1770, and 5238 shall be exhausted through a common stack. [Rule 1421]

3. The permittee shall install, operate, and maintain equipment for the determination of CO<sub>2</sub> and NO<sub>x</sub> emissions on each applicable exhaust stack in accordance with 40 CFR Parts 72 and 75. [40 CFR Parts 72 and 75.10(a)]
4. The permittee shall prepare and maintain onsite a written Quality Assurance program in accordance with 40 CFR Part 75, Appendix B for the continuous monitoring of NO<sub>x</sub> emissions from each applicable exhaust stack. The components of the Quality Assurance program include, but are not limited to, procedures for daily calibration testing, quarterly linearity testing, recordkeeping and reporting implementation, and relative accuracy testing. [40 CFR Parts 72 and 75]
5. The permittee shall monitor SO<sub>2</sub> emissions in accordance with 40 CFR Part 72 and 75. [40 CFR Parts 72 and 75]
6. The permittee shall submit quarterly electronic data reports to EPA for the emissions from each applicable exhaust stack in accordance with 40 CFR Part 75. These reports must be submitted within 30 days following the end of each calendar quarter and shall include all information required in § 75.64. [40 CFR Part 75]

**E. ADDITIONAL TERMS**

1. Any emission unit described in this Title V operating permit as being fired on natural gas shall only use Public Utility Commission (PUC)-quality natural gas, unless the emission unit permit specifies otherwise. [Rules 53, 62]
2. The permittee shall file quarterly emission reports in accordance with Rule 19.2. [Rule 19.2]

**SECTION III. EMISSION UNIT REQUIREMENTS**

**A. DISTRICT PERMITTED EMISSION UNITS**

Facility Emission Units (EU) are listed in Appendix A, including all terms and conditions of such permits.

**B. REGISTERED AND LEASED EMISSION UNITS**

The permittee shall comply with the source specific applicable requirements specified in the Rules and Regulations cited below for all registered emission units, unless specifically exempted by the same Rule or Regulations.

<b>Regulation</b>	<b>Rule Citation</b>	<b>Title</b>
SDCAPCD Reg. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. IV	69.4	Stationary Reciprocating Internal Combustion Engines

**C. INSIGNIFICANT EMISSION UNITS AND ACTIVITIES**

The permittee shall comply with the applicable requirements specified in the District Rules and Regulations for any Insignificant Units located at this facility that are listed at District Regulation XIV, Appendix-A.

#### **SECTION IV. VARIANCE PROCEDURES**

The permittee may seek relief from District enforcement action in the event of a breakdown in accordance with District Rule 98. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance does not provide relief from federal enforcement or citizen's suits. [Rule 98]

## SECTION V. APPENDICES

### APPENDIX A: EMISSION UNITS (PTOs)

<b>EU Reference (PTO#)</b>	<b>Source</b>
792	Utility Boiler
793	Utility Boiler
1267	Gas Turbine
1770	Utility Boiler
5238	Utility Boiler
20446	Metal Parts Coating
920894	Emergency Engine
961265	Marine Coating
970274	Limited Use Engine
960330	Registered Engine



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Cabrillo Power I LLC  
Plant Manager  
4600 Carlsbad Blvd  
Carlsbad CA, 92008

EQUIPMENT ADDRESS  
Cabrillo Power LLC  
Tim Sisk  
4600 Carlsbad Blvd  
Carlsbad CA 92008

## PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

### EQUIPMENT OWNER

Cabrillo Power I LLC Owner Manager 4600 Carlsbad Bl, Carlsbad, CA 92008

### EQUIPMENT DESCRIPTION

BOILER #2: BABCOCK & WILCOX (MODEL: RADIANT, 1013 MM BTU/HR, S/N: 23101-56) OPERATING A STEAM TURBINE GENERATOR, 109 MW-GROSS; NATURAL GAS FIRED, WITH AN RJM BURNER (MODEL: FLAME STABILIZATION WITH WATER INJECTION) AND VENTED TO A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM USING AQUEOUS AMMONIA; AND A CONTINUOUS EMISSION MONITORING SYSTEM (KVB-ENERTEC).

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

- Fee Schedules: 1 [13D] Boiler/Heater - 100 Megawatt  
1 [92J] CEMS Evaluation (T&M)  
1 [92I] Ammonia Source Test  
1 [92F] NOx and CO Source Test

BEC: APCD2013-CON-000673

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

2. The emissions of carbon monoxide (CO) shall not exceed 400 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [NSR]
4. This equipment shall only be fired with natural gas. [Rule 53 and/or Rule 62]
5. The higher heating value of natural gas used in this equipment shall be the value reported by the utility supplying the natural gas to this facility during the previous billing month. For purposes of this permit a billing month means the time period between meter readings by the utility supplying natural gas. [Rule 69 and 40 CFR Part 75]
6. This equipment shall comply with Rule 68 at all times it is operating, including required recordkeeping to demonstrate compliance. [Rule 68]



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10. The CEMS to monitor NOx and O2 required by this Permit shall meet all the applicable performance, installation, certification, and quality assurance and quality control provisions specified in 40 CFR part 60, Appendix B and Appendix F and be operated in accordance with 40 CFR Part 60.13. Fuel flow monitors required by this Permit shall meet all applicable performance, installation, certification, calibration, and quality assurance and quality control provisions specified in 40 CFR Part 75.
14. This equipment shall be source tested at least once per permit year before the permit to operate renewal date, to demonstrate compliance with the CO and ammonia emission standards of this permit, using District approved methods, unless otherwise directed in writing by the District. [NSR; Rule 21]
15. All source tests required for this equipment shall be conducted in accordance with the following unless otherwise directed in writing by the District:
  - A. For measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content the source test shall be conducted in accordance with District Method 100, "test procedures for the determination of NOx, CO, and diluent gases by continuous emission monitoring," dated May 1995, as approved by the EPA, or an alternative method that has been approved by the District and EPA, and the applicable provisions specified in 40 CFR part 60, Appendix B and Appendix F.
  - B. For measurements of ammonia, the source test shall be conducted in accordance with Bay Area Air Quality Management District (BAAQMD) Method ST-1B, "Ammonia, continuous sampling," dated January 20, 1982, as approved by the EPA or an alternative method that has been approved by the District and EPA.
  - C. Source testing shall be performed at no less than 80% of the boiler rating.
  - D. Measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content, and ammonia shall be made concurrently. For each source test, a source test protocol shall be submitted to the District for written approval at least 30 days prior to the date of the source test and, within 30 days after completion of the source test, a final test report shall be submitted to the District for review and approval, unless otherwise directed in writing by the District. [40 CFR part 60]
16. At the request of the District or EPA, the exhaust concentration of combustion particulates shall be measured in accordance with EPA method 5, "determination of particulate matter emissions from stationary sources" or an alternative method that has been approved by the District and EPA. A source test protocol approved in writing in advance by the requestor shall be used for this purpose. [40 CFR part 60]
18. All records required by this Permit shall be kept for a minimum of five (5) years, maintained on-site, and made available to District personnel upon request. Required records shall be made available to the District upon request. [Rule 1421]
19. This equipment shall be properly maintained and operated in accordance with good Air Pollution Control practices at all times. [Rule 51]
20. The Permittee shall notify the Air Pollution Control District (APCD) of each formal damage claim that can be associated with acid fallout within ten (10) days of each such occurrence. [Rule 51]
21. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]



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**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

1. Emissions of nitrogen oxides (NOx) shall not exceed 0.15 pounds per gross megawatt-hour averaged over each calendar day of operation, in accordance with Rule 69 except as provided below.

For calendar days in which a startup(s) or shutdown(s) occurs, the NOx emission rate shall comply with one or more of the following alternative limits:

- A. The Rule 69 NOx emission limit for the calendar day, as listed above; or
- B. Beginning with the last non-excluded (for periods excluded from emission limit and emission rate averages see D. and E. of this condition) clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the preceding 1440 non-excluded clock minutes (retrospective 24-hour average); or
- C. Beginning with the first non-excluded clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the succeeding 1440 non-excluded clock minutes (prospective 24-hour average).

For each calendar day in which a startup(s) or shutdown(s) occurs, the permittee may elect to base compliance on any one of the above three alternatives. For purposes of this permit, a startup or shutdown during a calendar day occurs if no fuel is combusted for a period of at least 60 consecutive clock minutes during the calendar day.

The calendar-day and retrospective and prospective 24-hour average mass emission rate of NOx per unit of gross electrical energy generated shall be averaged over the same time period as the applicable NOx emission limit, based on CEMS and other continuous monitoring data, and calculated in accordance with the most recent NOx monitoring protocol approved in writing by the District.

The following time periods shall be excluded from the calendar day and retrospective and prospective 24-hour averages of NOx emission limits and emission rates:

- D. Notwithstanding the NOx monitoring protocol, any portion of a clock hour, including an entire clock hour, if applicable, when there is no electrical generation by the steam turbine generator or no fuel is being combusted; and
  - E. Any other periods that are specified as excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. [Rule 69]
3. The emissions of ammonia, shall not exceed 10 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [Rule 1200]
  7. The Permittee shall maintain calendar day records that record the time to the nearest clock minute that electrical generation commenced and electrical generation ended. For purposes of all conditions in this Permit, electrical generation commences when gross electrical power output from the steam turbine generator equals or exceeds 1.0 megawatt (MW) and ends when gross electrical power output from the steam turbine generator is less than 1.0 MW. [Rule 69]



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8. SCR operation condition:

At all times when fuel is being combusted, all combustion emissions from the boiler shall be vented to the SCR system. The SCR shall be in full operation when the SCR system inlet temperature equals or exceeds 460 degrees F except for periods of repair or maintenance to the SCR system or recovery of normal boiler operations following an inadvertent flameout. For the entire duration of such repair, maintenance, or inadvertent flameout periods, all of the following must be satisfied:

- (1) The CEMS shall be in continuous operation;
- (2) No periods excluded from calculation of the NOx mass emission limit or emission rate as specified in the "NOx emission limit condition" or the approved NOx monitoring protocol shall occur except a period during which the CEMS probe is being purged not to exceed five clock minutes in any clock hour and;
- (3) For each calendar day on which the SCR system repair or maintenance is performed or recovery of normal operations following an inadvertent flameout occurs, the "NOx emission limit condition" is complied with. The permittee shall maintain a log indicating the date and time periods of all such SCR system maintenance or repair and the nature of the maintenance or repair performed. [Rule 69]



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9. This equipment shall be equipped with continuous monitors, and associated data collection, processing and storage systems, which record and preserve all information necessary to demonstrate compliance with District Rule 69. These continuous monitors, including any identified alternative monitors used when a primary monitor is unavailable, and associated data collection, processing and storage systems shall, as applicable, be installed, certified, calibrated, and operated; process monitoring data; and perform calculations in accordance with the NOx monitoring protocol for this equipment, "NOx monitoring protocol, Encina Power Station Boiler Unit," as approved in writing by the District. The permittee may apply to revise any such NOx protocol and, upon written approval by the District, the revised protocol shall replace the previous protocol.

In addition, the District may revise the NOx protocol to ensure compliance with any applicable requirements of Rule 69. The calculation methodology of the NOx monitoring protocol shall specify the time of completion and recording of all calculations. The monitors shall be in full operation at all times when the equipment is in operation except for periods, if any, excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. For each calendar day and clock hour when fuel is combusted, at a minimum, the permittee shall perform the following and, no later than April 1, 2004, or the effective date of the NOx monitoring protocol, perform the following in accordance with the most recent approved NOx monitoring protocol:

- A. For each clock minute, measure and record values for natural gas flow rate, gross electrical power output, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet O2 concentration, ammonia solution flow rate, and the SCR inlet temperature and calculate and record fuel heat input rates;
- B. For each clock hour, calculate and record the average for the following: gross electrical power output, natural gas flow rate, ammonia solution flow rate, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet NOx concentration corrected to 3% O2, NOx emission rate expressed in pounds per hour, SCR outlet O2 concentration, and the SCR inlet temperature;
- C. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a retrospective 24-hour average, calculate and record within 30 calendar days of the end of that calendar day the retrospective 24-hour NOx emission limit, retrospective 24-hour average NOx emission rate expressed in pounds per hour, retrospective 24-hour average gross electrical power output expressed in megawatts, and the retrospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- D. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a prospective 24-hour average, calculate and record within 30 calendar days of the date that the applicable 1440 clock-minute period ends the prospective 24-hour NOx emission limit, prospective 24-hour average NOx emission rate expressed in pounds per hour, prospective 24-hour average gross electrical power output expressed in megawatts, and the prospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- E. For each calendar day, calculate and record the Rule 69 NOx emission limit, average NOx emission rate expressed in pounds per hour, average gross electrical power output expressed in megawatts, and the average NOx emission rate expressed in pounds per gross megawatt-hour; and
- F. Measure, calculate, and record any other information as specified in the NOx monitoring protocol for this equipment. [Rule 69]
11. Except for changes that are specified in the initial approved NOx monitoring protocol or a subsequent revision to that protocol that is approved in advance, in writing, by the District, the District shall be notified in writing at least thirty (30) days prior to any planned changes made in the CEMS/DAHS (including the programmable logic controller) software which affects the value of data displayed on the CEMS/DAHS monitors with respect to the parameters measured by their respective sensing devices or any planned changes to the software that controls the ammonia flow to the SCR. Unplanned or emergency changes shall be reported to the District within 96 hours. [Rule 69]



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**Sectors:** 1, C  
**Site ID:** APCD1982-SITE-00195  
**App ID:** APCD2018-APP-005404

**PERMIT ID**  
APCD2003-PTO-000792



12. The Permittee shall provide, as part of the NOx monitoring protocol for this equipment, a description of all external surface areas of all equipment of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, all such areas operating at less than atmospheric pressure, and all such areas controlled with a sealing air system. [Rule 69]
13. The ammonia injection flow rate shall be continuously monitored, recorded, and, except as provided for in the "SCR operation condition", controlled. The Permittee of this equipment shall record the date, description, and results of all device quality assurance tests, calibrations, and maintenance of the ammonia injection and monitoring system. [Rule 1200]
17. At least once each calendar day in which the boiler is operated for six hours or more, the Permittee shall conduct a leak inspection of all accessible external surface areas of all equipment-including, but not limited to, the furnace, boiler, economizer, and combustion exhaust gas ducting-that is located before the exit of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, if any. For insulated areas, the external surface area is the external surface of the insulation. The leak inspection areas exclude areas operating at less than atmospheric pressure and those areas controlled with an operating Sealing Air System. In addition, at least once every two calendar years the Permittee shall conduct a survey of these leak inspection areas with infrared thermography or an equivalent method. For each leak discovered in the leak inspection area that has a visible leak area greater than 0.8 square feet, the Permittee shall notify the District Compliance Division within 2 hours of the discovery and provide the District with the approximate dimensions and location of the leak and proposed time for repair. At a minimum, the Permittee shall repair as soon as practicable any leaks discovered in the leak inspection area larger than 0.13 square feet and any leaks necessary to maintain compliance with Rule 69 emission limitations. The Permittee shall maintain a log that, for each leak repaired, records: the date of discovery; a description that includes the leak's maximum length and width as determined during the repair, the leak's location, as determined during repair; the date repair is completed; and the nature of the repair. In addition, the Permittee shall maintain a log that records the date of any malfunctions, maintenance, and repair of the Sealing Air System. In the absence of other information, a leak's cross sectional flow area for determining leak rate shall be the maximum length of the leak times the maximum width of the leak. Notwithstanding the approved protocol, emissions from leaks of combustion products prior to treatment in the SCR may be considered by the District when determining compliance with any applicable emission limit. [Rule 69]
22. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
23. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: APCD2013-APP-002510

PERMIT ID  
APCD2003-PTO-000793  


Cabrillo Power I LLC  
Plant Manager  
4600 Carlsbad Blvd  
Carlsbad CA, 92008

EQUIPMENT ADDRESS  
Cabrillo Power LLC  
Tim Sisk  
4600 Carlsbad Blvd  
Carlsbad CA 92008

## PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

### EQUIPMENT OWNER

Cabrillo Power I LLC Owner Manager 4600 Carlsbad Bl, Carlsbad, CA 92008

### EQUIPMENT DESCRIPTION

BOILER #3: BABCOCK & WILCOX (MODEL: RADIANT, S/N 23105-58, HEAT INPUT: 1128 MM BTU/HR) OPERATING A STEAM TURBINE GENERATOR, 115 MW-GROSS; NATURAL GAS FIRED, USING AN RJM BURNER (MODEL: FLAME STABILIZATION) WITH WATER INJECTION; AND VENTED TO A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM USING AQUEOUS AMMONIA AND A CONTINUOUS EMISSION MONITORING SYSTEM (KVB-ENERTEC).

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

- Fee Schedules: 1 [13D] Boiler/Heater - 100 Megawatt  
1 [92J] CEMS Evaluation (T&M)  
1 [92I] Ammonia Source Test  
1 [92F] NOx and CO Source Test

BEC: APCD2013-CON-000689

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

2. The emissions of carbon monoxide (CO) shall not exceed 400 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [NSR]
4. This equipment shall only be fired with natural gas. [Rule 53 and/or Rule 62]
5. The higher heating value of natural gas used in this equipment shall be the value reported by the utility supplying the natural gas to this facility during the previous billing month. For purposes of this permit a billing month means the time period between meter readings by the utility supplying natural gas. [Rule 69 and 40 CFR Part 75]
6. This equipment shall comply with Rule 68 at all times it is operating, including required recordkeeping to demonstrate compliance. [Rule 68]



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10. The CEMS to monitor NO<sub>x</sub> and O<sub>2</sub> required by this Permit shall meet all the applicable performance, installation, certification, and quality assurance and quality control provisions specified in 40 CFR Part 60, Appendix B and Appendix F and be operated in accordance with 40 CFR Part 60.13. Fuel flow monitors required by this Permit shall meet all applicable performance, installation, certification, calibration, and quality assurance and quality control provisions specified in 40 CFR Part 75.
14. This equipment shall be source tested at least once per Permit year before the Permit to operate renewal date, to demonstrate compliance with the CO and Ammonia emission standards of this Permit, using District approved methods, unless otherwise directed in writing by the District.  
[NSR; Rule 21]
15. All source tests required for this equipment shall be conducted in accordance with the following unless otherwise directed in writing by the District:
  - A. For measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content the source test shall be conducted in accordance with District Method 100, "test procedures for the determination of NO<sub>x</sub>, CO, and diluent gases by continuous emission monitoring," dated May 1995, as approved by the EPA, or an alternative method that has been approved by the District and EPA, and the applicable provisions specified in 40 CFR part 60, Appendix B and Appendix F.
  - B. For measurements of ammonia, the source test shall be conducted in accordance with Bay Area Air Quality Management District (BAAQMD) Method ST-1B, "Ammonia, continuous sampling," dated January 20, 1982, as approved by the EPA or an alternative method that has been approved by the District and EPA.
  - C. Source testing shall be performed at no less than 80% of the boiler rating.
  - D. Measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content, and ammonia shall be made concurrently. For each source test, a source test protocol shall be submitted to the District for written approval at least 30 days prior to the date of the source test and, within 30 days after completion of the source test, a final test report shall be submitted to the District for review and approval, unless otherwise directed in writing by the District. [40 CFR Part 60]
16. At the request of the District or EPA, the exhaust concentration of combustion particulates shall be measured in accordance with EPA method 5, "determination of particulate matter emissions from stationary sources" or an alternative method that has been approved by the District and EPA. A source test protocol approved in writing in advance by the requestor shall be used for this purpose. [40 CFR Part 60]
18. All records required by this Permit shall be kept for a minimum of five (5) years, maintained on-site, and made available to District personnel upon request. When requested by the District, records shall be provided in an electronic format acceptable to the District. [Rule 1421]
19. This equipment shall be properly maintained and operated in accordance with good Air Pollution Control practices at all times. [Rule 51]
20. The Permittee shall notify the Air Pollution Control District (APCD) of each formal damage claim that can be associated with acid fallout within ten (10) days of each such occurrence. [Rule 51]
21. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]



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**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

1. Emissions of nitrogen oxides (NOx) shall not exceed 0.15 pounds per gross megawatt-hour averaged over each calendar day of operation, in accordance with Rule 69 except as provided below.

For calendar days in which a startup(s) or shutdown(s) occurs, the NOx emission rate shall comply with one or more of the following alternative limits:

- A. The Rule 69 NOx emission limit for the calendar day, as listed above; or
- B. Beginning with the last non-excluded (for periods excluded from emission limit and emission rate averages see D. and E. of this condition) clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the preceding 1440 non-excluded clock minutes (retrospective 24-hour average); or
- C. Beginning with the first non-excluded clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the succeeding 1440 non-excluded clock minutes (prospective 24-hour average).

For each calendar day in which a startup(s) or shutdown(s) occurs, the permittee may elect to base compliance on any one of the above three alternatives. For purposes of this permit, a startup or shutdown during a calendar day occurs if no fuel is combusted for a period of at least 60 consecutive clock minutes during the calendar day.

The calendar-day and retrospective and prospective 24-hour average mass emission rate of NOx per unit of gross electrical energy generated shall be averaged over the same time period as the applicable NOx emission limit, based on CEMS and other continuous monitoring data, and calculated in accordance with the most recent NOx monitoring protocol approved in writing by the District.

The following time periods shall be excluded from the calendar day and retrospective and prospective 24-hour averages of NOx emission limits and emission rates:

- D. Notwithstanding the NOx monitoring protocol, any portion of a clock hour, including an entire clock hour, if applicable, when there is no electrical generation by the steam turbine generator or no fuel is being combusted; and
  - E. Any other periods that are specified as excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. [Rule 69]
3. The emissions of ammonia, shall not exceed 10 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [Rule 1200]
  7. The Permittee shall maintain calendar day records that record the time to the nearest clock minute that electrical generation commenced and electrical generation ended. For purposes of all conditions in this Permit, electrical generation commences when gross electrical power output from the steam turbine generator equals or exceeds 1.0 megawatt (MW) and ends when gross electrical power output from the steam turbine generator is less than 1.0 MW. [Rule 69]



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8. SCR operation condition:

At all times when fuel is being combusted, all combustion emissions from the boiler shall be vented to the SCR system. The SCR shall be in full operation when the SCR system inlet temperature equals or exceeds 460 degrees F except for periods of repair or maintenance to the SCR system or recovery of normal boiler operations following an inadvertent flameout. For the entire duration of such repair, maintenance, or inadvertent flameout periods, all of the following must be satisfied:

- (1) The CEMS shall be in continuous operation;
- (2) No periods excluded from calculation of the NOx mass emission limit or emission rate as specified in the "NOx emission limit condition" or the approved NOx monitoring protocol shall occur except a period during which the CEMS probe is being purged not to exceed five clock minutes in any clock hour and;
- (3) For each calendar day on which the SCR system repair or maintenance is performed or recovery of normal operations following an inadvertent flameout occurs, the "NOx emission limit condition" is complied with. The permittee shall maintain a log indicating the date and time periods of all such SCR system maintenance or repair and the nature of the maintenance or repair performed. [Rule 69]



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9. This equipment shall be equipped with continuous monitors, and associated data collection, processing and storage systems, which record and preserve all information necessary to demonstrate compliance with District Rule 69. These continuous monitors, including any identified alternative monitors used when a primary monitor is unavailable, and associated data collection, processing and storage systems shall, as applicable, be installed, certified, calibrated, and operated; process monitoring data; and perform calculations in accordance with the NOx monitoring protocol for this equipment, "NOx monitoring protocol, Encina Power Station Boiler Unit," as approved in writing by the District. The permittee may apply to revise any such NOx protocol and, upon written approval by the District, the revised protocol shall replace the previous protocol.

In addition, the District may revise the NOx protocol to ensure compliance with any applicable requirements of Rule 69. The calculation methodology of the NOx monitoring protocol shall specify the time of completion and recording of all calculations. The monitors shall be in full operation at all times when the equipment is in operation except for periods, if any, excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. For each calendar day and clock hour when fuel is combusted, at a minimum, the permittee shall perform the following and, no later than April 1, 2004, or the effective date of the NOx monitoring protocol, perform the following in accordance with the most recent approved NOx monitoring protocol:

- A. For each clock minute, measure and record values for natural gas flow rate, gross electrical power output, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet O2 concentration, ammonia solution flow rate, and the SCR inlet temperature and calculate and record fuel heat input rates;
- B. For each clock hour, calculate and record the average for the following: gross electrical power output, natural gas flow rate, ammonia solution flow rate, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet NOx concentration corrected to 3% O2, NOx emission rate expressed in pounds per hour, SCR outlet O2 concentration, and the SCR inlet temperature;
- C. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a retrospective 24-hour average, calculate and record within 30 calendar days of the end of that calendar day the retrospective 24-hour NOx emission limit, retrospective 24-hour average NOx emission rate expressed in pounds per hour, retrospective 24-hour average gross electrical power output expressed in megawatts, and the retrospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- D. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a prospective 24-hour average, calculate and record within 30 calendar days of the date that the applicable 1440 clock-minute period ends the prospective 24-hour NOx emission limit, prospective 24-hour average NOx emission rate expressed in pounds per hour, prospective 24-hour average gross electrical power output expressed in megawatts, and the prospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- E. For each calendar day, calculate and record the Rule 69 NOx emission limit, average NOx emission rate expressed in pounds per hour, average gross electrical power output expressed in megawatts, and the average NOx emission rate expressed in pounds per gross megawatt-hour; and
- F. Measure, calculate, and record any other information as specified in the NOx monitoring protocol for this equipment. [Rule 69]
11. Except for changes that are specified in the initial approved NOx monitoring protocol or a subsequent revision to that protocol that is approved in advance, in writing, by the District, the District shall be notified in writing at least thirty (30) days prior to any planned changes made in the CEMS/DAHS (including the programmable logic controller) software which affects the value of data displayed on the CEMS/DAHS monitors with respect to the parameters measured by their respective sensing devices or any planned changes to the software that controls the Ammonia flow to the SCR. Unplanned or emergency changes shall be reported to the District within 96 hours. [Rule 69]



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**PERMIT ID**  
APCD2003-PTO-000793



12. The Permittee shall provide, as part of the NOx monitoring protocol for this equipment, a description of all external surface areas of all equipment of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, all such areas operating at less than atmospheric pressure, and all such areas controlled with a sealing air system. [Rule 69]
13. The ammonia injection flow rate shall be continuously monitored, recorded, and, except as provided for in the "SCR operation condition", controlled. The Permittee of this equipment shall record the date, description, and results of all device quality assurance tests, calibrations, and maintenance of the ammonia injection and monitoring system. [Rule 1200]
17. At least once each calendar day in which the boiler is operated for six hours or more, the permittee shall conduct a leak inspection of all accessible external surface areas of all equipment-including, but not limited to, the furnace, boiler, economizer, and combustion exhaust gas ducting-that is located before the exit of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, if any.

For insulated areas, the external surface area is the external surface of the insulation. The leak inspection areas exclude areas operating at less than atmospheric pressure and those areas controlled with an operating sealing air system. In addition, at least once every two calendar years the permittee shall conduct a survey of these leak inspection areas with infrared thermography or an equivalent method.

For each leak discovered in the leak inspection area that has a visible leak area greater than 1.2 square feet, the permittee shall notify the District Compliance Division within 2 hours of the date repair is completed; and the nature of the repair.

The permittee shall maintain a log that, for each leak repaired, records: the date of discovery; a description that includes the leak's maximum length and width as determined during the repair, the leak's location, as determined during repair; the date repair is completed; and the nature of the repair. In addition, the permittee shall maintain a log that records the date of any malfunctions, maintenance, and repair of the sealing air system. In the absence of other information, a leak's cross sectional flow area for determining leak rate shall be the maximum length of the leak times the maximum width of the leak. Notwithstanding the approved protocol, emissions from leaks of combustion products prior to treatment in the SCR may be considered by the District when determining compliance with any applicable emission limit. [Rule 69]

22. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
23. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: APCD2013-APP-002510

PERMIT ID  
APCD2003-PTO-001267

Cabrillo Power I LLC  
Plant Manager  
4600 Carlsbad Blvd  
Carlsbad CA, 92008

EQUIPMENT ADDRESS  
Cabrillo Power LLC  
Tim Sisk  
4600 Carlsbad Blvd  
Carlsbad CA 92008

## PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

### EQUIPMENT OWNER

Cabrillo Power I LLC Owner Manager 4600 Carlsbad BI, Carlsbad, CA 92008

### EQUIPMENT DESCRIPTION

GAS TURBINE/GENERATOR (MFR: GENERAL ELECTRIC, MODEL: PG-5191, HEAT INPUT: 317MM BTU/HR, S/N: 179269)  
NATURAL GAS FIRED

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [92G] NOx Source Test  
1 [20G] Peak Load Electric Generation

BEC: APCD2013-CON-000674

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

1. Emissions of oxides of nitrogen (NOx) measured in the flue gas, calculated as nitrogen dioxide (NO2), shall not exceed 42 parts per million by volume (ppmv), dry basis at 15% oxygen. [Rules 69.3 and 69.3.1]
2. Continuous monitors accurate to plus or minus 5% shall be installed which monitor and record the stack exhaust temperature, megawatts produced, and the rate of water injection. [Rule 69.3; 40 CFR Part 64]
3. The continuous monitors and recorders shall be maintained in good operating condition, inspected annually, calibrated annually to maintain plus or minus 5% accuracy and shall be in operation whenever the turbine operates. [40 CFR Part 64]
4. Emission standards and requirements for other operational characteristics shall not apply during startup or shutdown for a period not to exceed 120 continuous minutes. [Rule 69.3.1]



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5. An operating log shall be maintained and made available to the District upon request. Records in the log shall include:

- hours of operation
- total cumulative hours of operation during each calendar year
- duration of all startups, shutdowns and fuel changes (if applicable)
- quantity of fuel used
- the reason for operation (Source Testing, peak shaving, maintenance, etc)

Start up time includes operating time of the IC Starter Engine used to start the Gas Turbine. [Rule 69.3.1]

6. All records required by this permit shall be kept for a minimum of five years and made available to District personnel upon request. [40CFR 70.6(a)(3)(iii)(B)]
7. A chart (megawatts vs. water flow NOx envelope) illustrating the relationship between water flow and power output for this turbine shall be kept on the premises. The turbine shall be operated within the envelope defined by the chart. The chart shall also display the gas flow rates associated with power output for this turbine. [40 CFR Part 64]
8. This Turbine shall be equipped with a non-resettable totalizing Engine hour meter which shall be maintained in good working order and used for recording operating hours. [Rule 69.3.1]
9. This turbine shall not be operated equal to or more than 877 hours per calendar year. [Rule 69.3.1]
10. Source testing shall be conducted in accordance with the San Diego APCD Method 100 or with the Air Resources Board (ARB) Test Method 100, as approved by the U.S. Environmental Protection Agency. Source testing shall include all operational characteristics required to be monitored and recorded. [Rule 69.3.1]
11. Source testing shall be performed at no less than 80% of the power rating. If it is demonstrated to the satisfaction of the District that this turbine can not operate at these conditions, then emissions source testing shall be performed at the highest achievable continuous power rating. [Rule 69.3.1]
12. For the purposes of compliance determination based upon source testing, the NOx emissions concentration shall be calculated as the average of three test runs. [Rule 69.3.1]
13. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year. [Rule 69.3.1]
14. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

15. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
16. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



Sectors: 1, C
Site ID: APCD1982-SITE-00195
App ID: APCD2013-APP-002510

PERMIT ID
APCD2003-PTO-005238

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EQUIPMENT ADDRESS
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PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

Cabrillo Power I LLC Owner Manager 4600 Carlsbad Bl, Carlsbad, CA 92008

EQUIPMENT DESCRIPTION

BOILER #5: BABCOCK & WILCOX (MODEL: RB498 EL PASO, S/N BW-235, 3475 MM BTU/HR), NATURAL GAS FIRED, USING A TODD COMBUSTION LOW-NOx BURNER (MODEL: DYNASWIRL-LN) WITH FLUE GAS RECIRCULATION AND A SEPARATED OVER FIRE AIR SYSTEM; VENTED TO A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM (HITACHI AMERICA, 19'3" X 52'0" X 6'6") USING AQUEOUS AMMONIA, AND A CONTINUOUS EMISSION MONITORING SYSTEM (MFR: KVB-ENTERTEC).

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

- Fee Schedules: 1 [92J] CEMS Evaluation (T&M)
1 [13D] Boiler/Heater - 100 Megawatt
1 [92A] Particulate Matter Source Test
1 [92I] Ammonia Source Test
1 [92F] NOx and CO Source Test

BEC: APCD2013-CON-000672

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

- 2. The emissions of carbon monoxide (CO) shall not exceed 400 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [NSR]
4. This equipment shall only be fired with natural gas. [Rule 53 and/or Rule 62]
5. The higher heating value of natural gas used in this equipment shall be the value reported by the utility supplying the natural gas to this facility during the previous billing month. For purposes of this permit a billing month means the time period between meter readings by the utility supplying natural gas. [Rule 69 and 40 CFR Part 75]



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**PERMIT ID**  
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10. The CEMS to monitor NO<sub>x</sub> and O<sub>2</sub> required by this Permit shall meet all the applicable performance, installation, certification, and quality assurance and quality control provisions specified in 40 CFR Part 60, Appendix B and Appendix F and be operated in accordance with 40 CFR Part 60.13. Fuel flow monitors required by this Permit shall meet all applicable performance, installation, certification, calibration, and quality assurance and quality control provisions specified in 40 CFR Part 75.
14. This equipment shall be source tested at least once per Permit year before the Permit to operate renewal date, to demonstrate compliance with the CO and ammonia emission standards of this Permit, using District approved methods, unless otherwise directed in writing by the District. [NSR; Rule 21]
15. All source tests required for this equipment shall be conducted in accordance with the following unless otherwise directed in writing by the District:
  - A. For measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content the source test shall be conducted in accordance with District Method 100, "test procedures for the determination of NO<sub>x</sub>, CO, and diluent gases by continuous emission monitoring," dated May 1995, as approved by the EPA, or an alternative method that has been approved by the District and EPA, and the applicable provisions specified in 40 CFR part 60, Appendix B and Appendix F.
  - B. For measurements of ammonia, the source test shall be conducted in accordance with Bay Area Air Quality Management District (BAAQMD) Method ST-1B, "Ammonia, continuous sampling," dated January 20, 1982, as approved by the EPA or an alternative method that has been approved by the District and EPA.
  - C. Source testing shall be performed at no less than 80% of the boiler rating.
  - D. Measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content, and ammonia shall be made concurrently. For each source test, a source test protocol shall be submitted to the District for written approval at least 30 days prior to the date of the source test and, within 30 days after completion of the source test, a final test report shall be submitted to the District for review and approval, unless otherwise directed in writing by the District. [40 CFR Part 60]
16. At the request of the District or EPA, the exhaust concentration of combustion particulates shall be measured in accordance with EPA method 5, "determination of particulate matter emissions from stationary sources" or an alternative method that has been approved by the District and EPA. A source test protocol approved in writing in advance by the requestor shall be used for this purpose. [40 CFR Part 60]
18. All records required by this Permit shall be kept for a minimum of five (5) years, maintained on-site, and made available to District personnel upon request. When requested by the District, records shall be provided in an electronic format acceptable to the District. [Rule 1421]
18. This equipment shall comply with Rule 68 at all times it is operating, including required recordkeeping to demonstrate compliance. [Rule 68]
19. This equipment shall be properly maintained and operated in accordance with good Air Pollution Control practices at all times. [Rule 51]
20. The Permittee shall notify the Air Pollution Control District (APCD) of each formal damage claim that can be associated with acid fallout within ten (10) days of each such occurrence. [Rule 51]
21. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]



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**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

1. Emissions of nitrogen oxides (NOx) shall not exceed 0.15 pounds per gross megawatt-hour averaged over each calendar day of operation, in accordance with Rule 69 except as provided below.

For calendar days in which a startup(s) or shutdown(s) occurs, the NOx emission rate shall comply with one or more of the following alternative limits:

- A. The Rule 69 NOx emission limit for the calendar day, as listed above; or
- B. Beginning with the last non-excluded (for periods excluded from emission limit and emission rate averages see D. and E. of this condition) clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the preceding 1440 non-excluded clock minutes (retrospective 24-hour average); or
- C. Beginning with the first non-excluded clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the succeeding 1440 non-excluded clock minutes (prospective 24-hour average).

For each calendar day in which a startup(s) or shutdown(s) occurs, the permittee may elect to base compliance on any one of the above three alternatives. For purposes of this permit, a startup or shutdown during a calendar day occurs if no fuel is combusted for a period of at least 60 consecutive clock minutes during the calendar day.

The calendar-day and retrospective and prospective 24-hour average mass emission rate of NOx per unit of gross electrical energy generated shall be averaged over the same time period as the applicable NOx emission limit, based on CEMS and other continuous monitoring data, and calculated in accordance with the most recent NOx monitoring protocol approved in writing by the District.

The following time periods shall be excluded from the calendar day and retrospective and prospective 24-hour averages of NOx emission limits and emission rates:

- D. Notwithstanding the NOx monitoring protocol, any portion of a clock hour, including an entire clock hour, if applicable, when there is no electrical generation by the steam turbine generator or no fuel is being combusted; and
  - E. Any other periods that are specified as excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. [Rule 69]
3. The emissions of ammonia, shall not exceed 10 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [Rule 1200]
  7. The Permittee shall maintain calendar day records that record the time to the nearest clock minute that electrical generation commenced and electrical generation ended. For purposes of all conditions in this permit, electrical generation commences when gross electrical power output from the steam turbine generator equals or exceeds 3.0 megawatt (MW) and ends when gross electrical power output from the steam turbine generator is less than 3.0 MW. [Rule 69]



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8. SCR operation condition:

At all times when fuel is being combusted, all combustion emissions from the boiler shall be vented to the SCR system. The SCR shall be in full operation when the SCR system inlet temperature equals or exceeds 460 degrees F except for periods of repair or maintenance to the SCR system or recovery of normal boiler operations following an inadvertent flameout. For the entire duration of such repair, maintenance, or inadvertent flameout periods, all of the following must be satisfied:

- (1) The CEMS shall be in continuous operation;
- (2) No periods excluded from calculation of the NOx mass emission limit or emission rate as specified in the "NOx emission limit condition" or the approved NOx monitoring protocol shall occur except a period during which the CEMS probe is being purged not to exceed five clock minutes in any clock hour and;
- (3) For each calendar day on which the SCR system repair or maintenance is performed or recovery of normal operations following an inadvertent flameout occurs, the "NOx emission limit condition" is complied with. The permittee shall maintain a log indicating the date and time periods of all such SCR system maintenance or repair and the nature of the maintenance or repair performed. [Rule 69]



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9. This equipment shall be equipped with continuous monitors, and associated data collection, processing and storage systems, which record and preserve all information necessary to demonstrate compliance with District Rule 69. These continuous monitors, including any identified alternative monitors used when a primary monitor is unavailable, and associated data collection, processing and storage systems shall, as applicable, be installed, certified, calibrated, and operated; process monitoring data; and perform calculations in accordance with the NOx monitoring protocol for this equipment, "NOx monitoring protocol, Encina Power Station Boiler Unit," as approved in writing by the District. The permittee may apply to revise any such NOx protocol and, upon written approval by the District, the revised protocol shall replace the previous protocol.

In addition, the District may revise the NOx protocol to ensure compliance with any applicable requirements of Rule 69. The calculation methodology of the NOx monitoring protocol shall specify the time of completion and recording of all calculations. The monitors shall be in full operation at all times when the equipment is in operation except for periods, if any, excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. For each calendar day and clock hour when fuel is combusted, at a minimum, the permittee shall perform the following and, no later than April 1, 2004, or the effective date of the NOx monitoring protocol, perform the following in accordance with the most recent approved NOx monitoring protocol:

- A. For each clock minute, measure and record values for natural gas flow rate, gross electrical power output, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet O2 concentration, ammonia solution flow rate, and the SCR inlet temperature and calculate and record fuel heat input rates;
- B. For each clock hour, calculate and record the average for the following: gross electrical power output, natural gas flow rate, ammonia solution flow rate, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet NOx concentration corrected to 3% O2, NOx emission rate expressed in pounds per hour, SCR outlet O2 concentration, and the SCR inlet temperature;
- C. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a retrospective 24-hour average, calculate and record within 30 calendar days of the end of that calendar day the retrospective 24-hour NOx emission limit, retrospective 24-hour average NOx emission rate expressed in pounds per hour, retrospective 24-hour average gross electrical power output expressed in megawatts, and the retrospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- D. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a prospective 24-hour average, calculate and record within 30 calendar days of the date that the applicable 1440 clock-minute period ends the prospective 24-hour NOx emission limit, prospective 24-hour average NOx emission rate expressed in pounds per hour, prospective 24-hour average gross electrical power output expressed in megawatts, and the prospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- E. For each calendar day, calculate and record the Rule 69 NOx emission limit, average NOx emission rate expressed in pounds per hour, average gross electrical power output expressed in megawatts, and the average NOx emission rate expressed in pounds per gross megawatt-hour; and
- F. Measure, calculate, and record any other information as specified in the NOx monitoring protocol for this equipment. [Rule 69]
11. Except for changes that are specified in the initial approved NOx monitoring protocol or a subsequent revision to that protocol that is approved in advance, in writing, by the District, the District shall be notified in writing at least thirty (30) days prior to any planned changes made in the CEMS/DAHS (including the programmable logic controller) software which affects the value of data displayed on the CEMS/DAHS monitors with respect to the parameters measured by their respective sensing devices or any planned changes to the software that controls the Ammonia flow to the SCR. Unplanned or emergency changes shall be reported to the District within 96 hours. [Rule 69]



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12. The Permittee shall provide, as part of the NOx monitoring protocol for this equipment, a description of all external surface areas of all equipment of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, all such areas operating at less than atmospheric pressure, and all such areas controlled with a sealing air system. [Rule 69]
13. The ammonia injection flow rate shall be continuously monitored, recorded, and, except as provided for in the "SCR operation condition", controlled. The Permittee of this equipment shall record the date, description, and results of all device quality assurance tests, calibrations, and maintenance of the ammonia injection and monitoring system. [Rule 1200]
17. At least once each calendar day in which the Boiler is operated for six hours or more, the Permittee shall conduct a leak inspection of all accessible external surface areas of all equipment-including, but not limited to, the Furnace, Boiler, Economizer, and combustion exhaust gas ducting-that is located before the exit of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, if any. For insulated areas, the external surface area is the external surface of the insulation. The leak inspection areas exclude areas operating at less than atmospheric pressure and those areas controlled with an operating Sealing Air System. In addition, at least once every two calendar years the Permittee shall conduct a survey of these leak inspection areas with infrared thermography or an equivalent method. For each leak discovered in the leak inspection area that has a visible leak area greater than 6.0 square feet, the Permittee shall notify the District Compliance Division within 2 hours of the discovery and provide the District with the approximate dimensions and location of the leak and proposed time for repair. At a minimum, the Permittee shall repair as soon as practicable any leaks discovered in the leak inspection area larger than 0.5 square feet and any leaks necessary to maintain compliance with Rule 69 emission limitations. The Permittee shall maintain a Log that, for each leak repaired, records: the date of discovery; a description that includes the leak's maximum length and width as determined during the repair, the leak's location, as determined during repair; the date repair is completed; and the nature of the repair.  
In addition, the Permittee shall maintain a Log that records the date of any malfunctions, maintenance, and repair of the Sealing Air System. In the absence of other information, a leak's cross sectional flow area for determining leak rate shall be the maximum length of the leak times the maximum width of the leak. Notwithstanding the approved protocol, emissions from leaks of combustion products prior to treatment in the SCR may be considered by the District when determining compliance with any applicable emission limit. [Rule 69]
22. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
23. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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Cabrillo Power I LLC  
Plant Manager  
4600 Carlsbad Blvd  
Carlsbad CA, 92008

EQUIPMENT ADDRESS  
Cabrillo Power LLC  
Tim Sisk  
4600 Carlsbad Blvd  
Carlsbad CA 92008

## PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

### EQUIPMENT OWNER

Cabrillo Power I LLC Owner Manager 4600 Carlsbad Bl, Carlsbad, CA 92008

### EQUIPMENT DESCRIPTION

BOILER# 4: BABCOCK & WILCOX (MODEL: RB477 EL PASO, S/N 22461-73, 3245MM BTU/HR) NATURAL GAS FIRED, USING A TODD COMBUSTION LOW-NOx BURNER (MODEL: DYNASWIRL-LN), FLUE GAS RECIRCULATION AND A SEPARATED OVERFIRE AIR SYSTEM; VENTED TO A SELECTIVE CATALYTIC REDUCTION (HITACHI AMERICA, 19'3" X 52'0" X 6'6") SYSTEM USING AQUEOUS AMMONIA, AND A CONTINUOUS EMISSION MONITORING SYSTEM (KVB-ENTERTEC).

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

- Fee Schedules:
- 1 [92J] CEMS Evaluation (T&M)
  - 1 [92J] CEMS Evaluation (T&M)
  - 1 [92A] Particulate Matter Source Test
  - 1 [92I] Ammonia Source Test
  - 1 [92F] NOx and CO Source Test

BEC: APCD2013-CON-000671

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

2. The emissions of carbon monoxide (CO) shall not exceed 400 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [NSR]
4. This equipment shall only be fired with natural gas. [Rule 53 and/or Rule 62]
5. The higher heating value of natural gas used in this equipment shall be the value reported by the utility supplying the natural gas to this facility during the previous billing month. For purposes of this permit a billing month means the time period between meter readings by the utility supplying natural gas. [Rule 69 and 40 CFR Part 75]



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6. This equipment shall comply with Rule 68 at all times it is operating, including required recordkeeping to demonstrate compliance. [Rule 68]
10. The CEMS to monitor NOx and O2 required by this Permit shall meet all the applicable performance, installation, certification, and quality assurance and quality control provisions specified in 40 CFR part 60, Appendix B and Appendix F and be operated in accordance with 40 CFR Part 60.13. Fuel flow monitors required by this Permit shall meet all applicable performance, installation, certification, calibration, and quality assurance and quality control provisions specified in 40 CFR Part 75.
14. This equipment shall be source tested at least once per permit year before the permit to operate renewal date, to demonstrate compliance with the CO and ammonia emission standards of this permit, using District approved methods, unless otherwise directed in writing by the District. [NSR; Rule 21]
15. All source tests required for this equipment shall be conducted in accordance with the following unless otherwise directed in writing by the District:
  - A. For measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content the source test shall be conducted in accordance with District Method 100, "test procedures for the determination of NOx, CO, and diluent gases by continuous emission monitoring," dated May 1995, as approved by the EPA, or an alternative method that has been approved by the District and EPA, and the applicable provisions specified in 40 CFR part 60, Appendix B and Appendix F.
  - B. For measurements of ammonia, the source test shall be conducted in accordance with Bay Area Air Quality Management District (BAAQMD) Method ST-1B, "Ammonia, continuous sampling," dated January 20, 1982, as approved by the EPA or an alternative method that has been approved by the District and EPA.
  - C. Source testing shall be performed at no less than 80% of the boiler rating.
  - D. Measurements of oxides of nitrogen, carbon monoxide, and stack gas oxygen content, and ammonia shall be made concurrently. For each source test, a source test protocol shall be submitted to the District for written approval at least 30 days prior to the date of the source test and, within 30 days after completion of the source test, a final test report shall be submitted to the District for review and approval, unless otherwise directed in writing by the District. [40 CFR Part 60]
16. At the request of the District or EPA, the exhaust concentration of combustion particulates shall be measured in accordance with EPA method 5, "determination of particulate matter emissions from stationary sources" or an alternative method that has been approved by the District and EPA. A source test protocol approved in writing in advance by the requestor shall be used for this purpose. [40 CFR Part 60]
18. All records required by this Permit shall be kept for a minimum of five (5) years, maintained on-site, and made available to District personnel upon request. When requested by the District, records shall be provided in an electronic format acceptable to the District. [Rule 1421]
19. This equipment shall be properly maintained and operated in accordance with good Air Pollution Control practices at all times. [Rule 51]
20. The Permittee shall notify the Air Pollution Control District (APCD) of each formal damage claim that can be associated with acid fallout within ten (10) days of each such occurrence. [Rule 51]
21. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]



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**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

1. Emissions of nitrogen oxides (NOx) shall not exceed 0.15 pounds per gross megawatt-hour averaged over each calendar day of operation, in accordance with Rule 69 except as provided below.

For calendar days in which a startup(s) or shutdown(s) occurs, the NOx emission rate shall comply with one or more of the following alternative limits:

- A. The Rule 69 NOx emission limit for the calendar day, as listed above; or
- B. Beginning with the last non-excluded (for periods excluded from emission limit and emission rate averages see D. and E. of this condition) clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the preceding 1440 non-excluded clock minutes (retrospective 24-hour average); or
- C. Beginning with the first non-excluded clock minute in the calendar day, a NOx emission limit, as determined above, based on the average of the succeeding 1440 non-excluded clock minutes (prospective 24-hour average).

For each calendar day in which a startup(s) or shutdown(s) occurs, the permittee may elect to base compliance on any one of the above three alternatives. For purposes of this permit, a startup or shutdown during a calendar day occurs if no fuel is combusted for a period of at least 60 consecutive clock minutes during the calendar day.

The calendar-day and retrospective and prospective 24-hour average mass emission rate of NOx per unit of gross electrical energy generated shall be averaged over the same time period as the applicable NOx emission limit, based on CEMS and other continuous monitoring data, and calculated in accordance with the most recent NOx monitoring protocol approved in writing by the District.

The following time periods shall be excluded from the calendar day and retrospective and prospective 24-hour averages of NOx emission limits and emission rates:

- D. Notwithstanding the NOx monitoring protocol, any portion of a clock hour, including an entire clock hour, if applicable, when there is no electrical generation by the steam turbine generator or no fuel is being combusted; and
  - E. Any other periods that are specified as excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. [Rule 69]
3. The emissions of ammonia, shall not exceed 10 parts per million by volume on a dry basis (ppmvd) corrected to 3% oxygen. [Rule 1200]
  7. The Permittee shall maintain calendar day records that record the time to the nearest clock minute that electrical generation commenced and electrical generation ended. For purposes of all conditions in this permit, electrical generation commences when gross electrical power output from the steam turbine generator equals or exceeds 3.0 megawatt (MW) and ends when gross electrical power output from the steam turbine generator is less than 3.0 MW. [Rule 69]



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8. SCR operation condition:

At all times when fuel is being combusted, all combustion emissions from the boiler shall be vented to the SCR system. The SCR shall be in full operation when the SCR system inlet temperature equals or exceeds 460 degrees F except for periods of repair or maintenance to the SCR system or recovery of normal boiler operations following an inadvertent flameout. For the entire duration of such repair, maintenance, or inadvertent flameout periods, all of the following must be satisfied:

- (1) The CEMS shall be in continuous operation;
- (2) No periods excluded from calculation of the NOx mass emission limit or emission rate as specified in the "NOx emission limit condition" or the approved NOx monitoring protocol shall occur except a period during which the CEMS probe is being purged not to exceed five clock minutes in any clock hour and;
- (3) For each calendar day on which the SCR system repair or maintenance is performed or recovery of normal operations following an inadvertent flameout occurs, the "NOx emission limit condition" is complied with. The permittee shall maintain a log indicating the date and time periods of all such SCR system maintenance or repair and the nature of the maintenance or repair performed. [Rule 69]



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9. This equipment shall be equipped with continuous monitors, and associated data collection, processing and storage systems, which record and preserve all information necessary to demonstrate compliance with District Rule 69. These continuous monitors, including any identified alternative monitors used when a primary monitor is unavailable, and associated data collection, processing and storage systems shall, as applicable, be installed, certified, calibrated, and operated; process monitoring data; and perform calculations in accordance with the NOx monitoring protocol for this equipment, "NOx monitoring protocol, Encina Power Station Boiler Unit," as approved in writing by the District. The permittee may apply to revise any such NOx protocol and, upon written approval by the District, the revised protocol shall replace the previous protocol.

In addition, the District may revise the NOx protocol to ensure compliance with any applicable requirements of Rule 69. The calculation methodology of the NOx monitoring protocol shall specify the time of completion and recording of all calculations. The monitors shall be in full operation at all times when the equipment is in operation except for periods, if any, excluded in the NOx monitoring protocol for this equipment as approved in writing by the District. For each calendar day and clock hour when fuel is combusted, at a minimum, the permittee shall perform the following and, no later than April 1, 2004, or the effective date of the NOx monitoring protocol, perform the following in accordance with the most recent approved NOx monitoring protocol:

- A. For each clock minute, measure and record values for natural gas flow rate, gross electrical power output, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet O2 concentration, ammonia solution flow rate, and the SCR inlet temperature and calculate and record fuel heat input rates;
- B. For each clock hour, calculate and record the average for the following: gross electrical power output, natural gas flow rate, ammonia solution flow rate, SCR outlet NOx concentration uncorrected for O2 percentage, SCR outlet NOx concentration corrected to 3% O2, NOx emission rate expressed in pounds per hour, SCR outlet O2 concentration, and the SCR inlet temperature;
- C. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a retrospective 24-hour average, calculate and record within 30 calendar days of the end of that calendar day the retrospective 24-hour NOx emission limit, retrospective 24-hour average NOx emission rate expressed in pounds per hour, retrospective 24-hour average gross electrical power output expressed in megawatts, and the retrospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- D. For each calendar day in which a startup or shutdown occurs and the permittee elects to base compliance on a prospective 24-hour average, calculate and record within 30 calendar days of the date that the applicable 1440 clock-minute period ends the prospective 24-hour NOx emission limit, prospective 24-hour average NOx emission rate expressed in pounds per hour, prospective 24-hour average gross electrical power output expressed in megawatts, and the prospective 24-hour average NOx emission rate expressed in pounds per gross megawatt-hour;
- E. For each calendar day, calculate and record the Rule 69 NOx emission limit, average NOx emission rate expressed in pounds per hour, average gross electrical power output expressed in megawatts, and the average NOx emission rate expressed in pounds per gross megawatt-hour; and
- F. Measure, calculate, and record any other information as specified in the NOx monitoring protocol for this equipment. [Rule 69]
11. Except for changes that are specified in the initial approved NOx monitoring protocol or a subsequent revision to that protocol that is approved in advance, in writing, by the District, the District shall be notified in writing at least thirty (30) days prior to any planned changes made in the CEMS/DAHS (including the programmable logic controller) software which affects the value of data displayed on the CEMS/DAHS monitors with respect to the parameters measured by their respective sensing devices or any planned changes to the software that controls the Ammonia flow to the SCR. Unplanned or emergency changes shall be reported to the District within 96 hours. [Rule 69]



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12. The Permittee shall provide, as part of the NOx monitoring protocol for this equipment, a description of all external surface areas of all equipment of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, all such areas operating at less than atmospheric pressure, and all such areas controlled with a sealing air system. [Rule 69]
13. The ammonia injection flow rate shall be continuously monitored, recorded, and, except as provided for in the "SCR operation condition", controlled. The Permittee of this equipment shall record the date, description, and results of all device quality assurance tests, calibrations, and maintenance of the ammonia injection and monitoring system. [Rule 1200]
17. At least once each calendar day in which the boiler is operated for six hours or more, the Permittee shall conduct a leak inspection of all accessible external surface areas of all equipment gas ducting that is located before the exit of the SCR and where a positive pressure differential exists between the products of combustion and the ambient atmosphere, if any. For insulated areas, the external surface area is the external surface of the insulation. The leak inspection areas exclude areas operating at less than atmospheric pressure and those areas controlled with an operating Sealing Air System. In addition, at least once every two calendar years the Permittee shall conduct a survey of these leak inspection areas with infrared thermography or an equivalent method. For each leak discovered in the leak inspection area that has a visible leak area greater than 4.0 square feet, the Permittee shall notify the District Compliance Division within 2 hours of the discovery and provide the District with the approximate dimensions and location of the leak and proposed time for repair. At a minimum, the Permittee shall repair as soon as practicable any leaks discovered in the leak inspection area larger than 0.4 square feet and any leaks necessary to maintain compliance with Rule 69 emission limitations. In addition, the Permittee shall maintain a log that records the date of any malfunctions, maintenance, and repair of the Sealing Air System. In the absence of other information, a leak's cross sectional flow area for determining leak rate shall be the maximum length of the leak times the maximum width of the leak. Notwithstanding the approved protocol, emissions from leaks of combustion products prior to treatment in the SCR may be considered by the District when determining compliance with any applicable emission limit. [Rule 69]
22. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
23. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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App ID: N/A

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Cabrillo Power I LLC  
Plant Manager  
4600 Carlsbad Blvd  
Carlsbad CA, 92008

EQUIPMENT ADDRESS  
Cabrillo Power LLC  
Tim Sisk  
4600 Carlsbad Blvd  
Carlsbad CA 92008

## PERMIT TO OPERATE

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### EQUIPMENT OWNER

Cabrillo Power I LLC Owner Manager 4600 Carlsbad BI, Carlsbad, CA 92008

### EQUIPMENT DESCRIPTION

METAL PARTS COATING APPLICATION STATION: BLEEKER BROS. MODEL F-12-10-20 PAINT SPRAY BOOTH, 12'W X 10'H X 20'D, WITH 3-HP EXHAUST FAN AND EXHAUST FILTERS; HVLP SPRAY SYSTEM 973407 6/99

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27J] Surface Coating Station  
BEC: 12580

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

1. Permittee shall not conduct any spray application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd). For the purposes of this condition, spray application means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. Spray-applied coatings do not include the following materials or activities: coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters) or surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electro deposition coating, web coating, coil coating, touch-up markers, or marking pens. [40 CFR 63 Subpart HHHHHH]
2. The permittee shall not use paint stripping solvents that contain methylene chloride (CAS 75-09-2) in paint removal processes. [40 CFR 63 Subpart HHHHHH; Rule 1200]
3. The permittee shall operate the coating application station described above in compliance with all applicable standards of Rule 67.3 Section (d), including application methods, surface preparation and cleanup requirements, coating VOC limits and application equipment cleanup requirements. [Rule 67.3]



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Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: N/A

PERMIT ID  
APCD2003-PTO-020446  


4. The permittee shall maintain records for the application station described above in accordance with all applicable requirements of Rule 67.3 Section (f). [Rule 67.3]
5. If requested by the District or EPA, the applicable test methods listed in Rule 67.3 Section (g) shall be used to determine compliance with the applicable standards of Rule 67.3 Section (d). [Rule 67.3]
6. The permittee shall not apply coatings in the paint spray booth described above unless exhaust fans and exhaust filters are installed and operating properly. [Rule 50]
7. The permittee shall maintain current MSDS's or manufacturer's specifications which identify the VOC content, organic Hazardous Air Pollutant (HAP) content, vapor pressure, or initial boiling point, as applicable, for all materials containing organic solvents used in the operation described above. [Rule 67.3]
8. The permittee shall maintain a permanent air pressure at the air cap of High Volume Low Pressure (HVLP) coating application equipment in the range of 0.1 to 10 psig. The permittee will have available on site pressure gauge(s) in proper operating condition to measure the air cap pressure of coating application equipment or have available manufacturer's technical information showing the correlation between the handle air inlet pressure and the air cap pressure. If the correlation option specified above is chosen to demonstrate compliance, a handle air inlet pressure gauge will be required on site in proper operating condition to measure the handle air inlet pressure. This condition applies only to those operations that claim the use of HVLP application equipment to comply with District Rules. [Rule 67.3]
9. Beginning December 1, 2003, for each calendar month and 12-consecutive calendar month period (12-month period) that ends in that calendar month, the permittee shall maintain calendar monthly usage records of the total volume, as applied, of organic HAP containing coatings, as specified in 40 CFR Part 63 Subpart M. The total usage for each calendar month and 12-month period shall be calculated within 15 days of the end of the calendar month. If the total usage of organic HAP containing coatings exceeds 250 gallons in any 12-month period, the permittee shall thereafter comply with the applicable requirements of 40 CFR Part 63 Subpart A and 40 CFR Part 63 Subpart M. [Rule 67.3 and 40 CFR 63 Subpart M]
10. The organic HAP content of any material shall be determined by the average value indicated by manufacturer information including, but not limited to, material safety data sheets, except that, when deemed necessary by the District or EPA, the organic HAP content of any liquid material shall be measured in accordance with Methods specified in 40 CFR Part 63 Subpart M. Alternative Methods may be used with the advanced written approval of the District and EPA. [Rule 67.3 and 40 CFR 63 Subpart M]
11. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

12. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
13. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: APCD2007-APP-985986

PERMIT ID  
APCD2003-PTO-920894

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## PERMIT TO OPERATE

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### EQUIPMENT OWNER

### EQUIPMENT DESCRIPTION

EMERGENCY ENGINE GENERATOR: MFR: CATERPILLAR, MODEL: 3208, S/N: 29A02159, 156 BHP, DIESEL FUELED; GENERATOR (100 KW, MFR: KATO ENGINEERING, MODEL: A24676000).

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34C] Emergency Standby Engine  
BEC: APCD2013-CON-000698

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

3. Permittee must operate and maintain the stationary engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The periodic maintenance shall be conducted at least once per calendar year. [Rule 69.4.1, 17 CCR 93115, and 40CFR Subpart ZZZZ §63.6625(e)(6)]
4. The owner or operator shall minimize engine operating time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Subpart ZZZZ §63.6625(h)]
5. The engine and any associated control equipment and monitoring equipment, shall be operated and maintained at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require further efforts to reduce emissions if the equipment is in compliance with all requirements of this authorization. Compliance with this requirement will be based on available information, including but not limited to operations and maintenance procedures, control systems statements, records, test results and reports and equipment inspection. [40 CFR Subpart ZZZZ §63.6605(b)]



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8. The equipment described above shall not cause or contribute to a public nuisance. [Rule 51]
9. Visible emissions including crank case smoke shall comply with Rule 50. [Rule 50]
12. The owner or operator shall change engine oil and filter every 500 hours of operation or annually, whichever comes first; or test the oil in accordance with 40 CFR § 63.6625(i). [40 CFR 63 Subpart ZZZZ § 63.6603(a) and Table 2d(4)(a)]
13. The owner or operator shall inspect the air cleaner of a compression ignition engine or inspect spark plugs of a spark ignition engine, every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ §63.6603(a) and Table 2d(4)(b) or Table 2d(5)(b)]
14. The owner or operator shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ §63.6603(a) and Table 2d(4)(c)]
17. The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 60 months following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 24 months of data shall be retained on site. The remaining 36 months of data may be retained off site. Records kept off site shall be made available to the APCD within 5 working days of a request. [40 CFR 63, General Provisions §63.10(b)]
18. The owner or operator shall submit a semiannual compliance report recording each instance in which the facility did not meet the requirements in Table 2d to 40 CFR 63, subpart ZZZZ. [40 CFR 63 Subpart ZZZZ §63.6640 (a-b)]
19. For the purposes of this authorization "deviation" shall have the same meaning as in 40 CFR 63 subpart ZZZZ. Generally, it is any time that the owner or operator failed to meet any requirement of 40 CFR 63 subpart ZZZZ contained in this authorization, including the general duty to minimize emissions at all times as required by 40 CFR 63.6(e)(1)(i). [40 CFR 63 Subpart ZZZZ and 40 CFR 63.6(e)(1)(i)]
20. The owner or operator shall submit a semiannual compliance report to the District by the end of the month following each reporting period. Reporting periods are January 1 through June 30 and July 1 through December 31. The semiannual compliance report shall contain:
  - a. Company name and address,
  - b. Statement by a responsible official (with name, title, and signature) certifying the accuracy of the report content,
  - c. Date of report and dates of reporting period,
  - d. The number, duration, and a brief description for each type of deviation which occurred during the reporting period and a description of actions taken to minimize emission and corrective actions taken,
  - e. If there are no deviations from requirements, a statement that there were no deviations
  - f. If there are deviations during the reporting period, the following information shall be included:
    1. Date and time that each malfunction started and stopped,
    2. A summary of total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during the reporting period. [40 CFR 63, Subpart ZZZZ §63.6650(b-d)]
21. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in 40CFR 63 Subpart ZZZZ in the semiannual monitoring report. If an affected source submits a compliance report pursuant to Table 7 of 40CFR 63 Subpart ZZZZ along with, or as part of, the Title V semiannual monitoring report, and the compliance report includes all required information concerning deviations from any emission or operating limitation in 40CFR 63 Subpart ZZZZ, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. [40 CFR 63 Subpart ZZZZ §63.6650(f)]
22. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

1. The engine shall be operated exclusively during emergencies as defined in Rule 69.4.1 or Rule 12 or 17CCR93115 as applicable, or for maintenance and testing.
2. Engine operation for maintenance and testing purposes shall not exceed 20 hours per calendar year. [17 CCR 93115]



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6. This engine shall not operate for non-emergency use during the following periods, as applicable:
  - (a) whenever there is any school sponsored activity, if engine is located on school grounds or
  - (b) between 7:30am and 3:30pm on days when school is in session, if the engine is located within 500 feet of, but not on, school grounds. This condition shall not apply to an engine located at or near any school grounds that also serve as the students' place of residence. [17 CCR 93115]
7. This engine shall only use CARB diesel fuel. [Rule 69.4.1, 17 CCR 93115]
10. Engine operation in response to notification of an impending rotating outage, shall be subject to all the following restrictions:
  - (a) the utility distribution company has ordered rotating outages in the control area where the engine is located.
  - (b) the engine is operated no more than 30 minutes prior to the time when the utility distribution company officially forecasts a rotating outage in the cited control area, and
  - (c) the engine operation is terminated immediately after the utility distribution company advises that a rotating outage is no longer in effect.This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115 (e)(2)(f).  
[17 CCR 93115]
11. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operating hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
  - (a) old meter's hour reading.
  - (b) replacement meter's manufacturer name, model, and serial number if available and current hour reading on replacement meter.
  - (c) copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. [Rule 69.4.1]
15. The owner or operator of this engine shall keep the following records:
  - applicable fuel certification
  - manual of recommended maintenance provided by the manufacturer
  - other maintenance procedure as approved in writing, in advance, by the DistrictThese records shall be kept on-site for at least the same period of time as the engine to which the records apply is located at the site. These records shall be made available to the District upon request.  
[Rule 69.4.1]
16. The owner or operator of this engine shall maintain an operating log containing, at a minimum, the following:
  - (a) dates and times of engine operation, whether the operation was for compliance with the testing requirements of the National Fire Protection Association (NFPA) 25 or emergency use, and the nature of the emergency if known;
  - (b) hours of operation for all uses other than those specified above and identification of the nature of that use.
  - (c) records of annual engine maintenance, including date the maintenance was performed.These records shall be made available to the Air Pollution Control District upon request. [Rule 12 or Rule 69.4.1 or 17CCR93115]
23. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
24. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: APCD1996-CER-960330

PERMIT ID  
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### EQUIPMENT OWNER

### EQUIPMENT DESCRIPTION

EMERGENCY STANDBY ENGINE: CUMMINS MODEL NT-355-P33, S/N: 31895, 225 BHP, DIESEL FUELED, DRIVING THE EMERGENCY STANDBY FLOOD PUMP FOR ENCINA UNITS 4 & 5 SUB BASEMENTS. 973407 6/99 17 CCR 93 115 SJE 03/06

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34W] Registered Engine (Rule 12)

BEC: APCD2013-CON-000696

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

3. Permittee must operate and maintain the stationary engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The periodic maintenance shall be conducted at least once per calendar year. [Rule 12, 17 CCR 93115, and 40CFR Subpart ZZZZ §63.6625(e)(6)]
4. The owner or operator shall minimize engine operating time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Subpart ZZZZ §63.6625(h)]



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5. The engine and any associated control equipment and monitoring equipment, shall be operated and maintained at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require further efforts to reduce emissions if the equipment is in compliance with all requirements of this authorization. Compliance with this requirement will be based on available information, including but not limited to operations and maintenance procedures, control systems statements, records, test results and reports and equipment inspection. [40 CFR Subpart ZZZZ §63.6605(b)]
8. The equipment described above shall not cause or contribute to a public nuisance. [Rule 51]
9. Visible emissions including crank case smoke shall comply with Rule 50. [Rule 50]
12. The owner or operator shall change engine oil and filter every 500 hours of operation or annually, whichever comes first; or test the oil in accordance with 40 CFR § 63.6625(i). [40 CFR 63 Subpart ZZZZ § 63.6603(a) and Table 2d(4)(a)]
13. The owner or operator shall inspect the air cleaner of a compression ignition engine or inspect spark plugs of a spark ignition engine, every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ §63.6603(a) and Table 2d(4)(b) or Table 2d(5)(b)]
14. The owner or operator shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ §63.6603(a) and Table 2d(4)(c)]
17. The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 60 months following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 24 months of data shall be retained on site. The remaining 36 months of data may be retained off site. Records kept off site shall be made available to the APCD within 5 working days of a request. [40 CFR 63, General Provisions §63.10(b)]
18. The owner or operator shall submit a semiannual compliance report recording each instance in which the facility did not meet the requirements in Table 2d to 40 CFR 63, subpart ZZZZ. [40 CFR 63 Subpart ZZZZ §63.6640 (a-b)]
19. For the purposes of this authorization "deviation" shall have the same meaning as in 40 CFR 63 subpart ZZZZ. Generally, it is any time that the owner or operator failed to meet any requirement of 40 CFR 63 subpart ZZZZ contained in this authorization, including the general duty to minimize emissions at all times as required by 40 CFR 63.6(e)(1)(i). [40 CFR 63 Subpart ZZZZ and 40 CFR 63.6(e)(1)(i)]
20. The owner or operator shall submit a semiannual compliance report to the District by the end of the month following each reporting period. Reporting periods are January 1 through June 30 and July 1 through December 31. The semiannual compliance report shall contain:
  - (a) Company name and address,
  - (b) Statement by a responsible official (with name, title, and signature) certifying the accuracy of the report content,
  - (c) Date of report and dates of reporting period,
  - (d) The number, duration, and a brief description for each type of deviation which occurred during the reporting period and a description of actions taken to minimize emission and corrective actions taken,
  - (e) If there are no deviations from requirements, a statement that there were no deviations
  - (f) If there are deviations during the reporting period, the following information shall be included:
    1. Date and time that each malfunction started and stopped,
    2. A summary of total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during the reporting period. [40 CFR 63, Subpart ZZZZ §63.6650(b-d)]
21. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in 40CFR 63 Subpart ZZZZ in the semiannual monitoring report. If an affected source submits a compliance report pursuant to Table 7 of 40CFR 63 Subpart ZZZZ along with, or as part of, the Title V semiannual monitoring report, and the compliance report includes all required information concerning deviations from any emission or operating limitation in 40CFR 63 Subpart ZZZZ, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. [40CFR 63 Subpart ZZZZ §63.6650(f)]



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22. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

1. The engine shall be operated exclusively during emergencies as defined in Rule 69.4.1 or Rule 12 or 17 CCR 93115 as applicable, or for maintenance and testing.
2. Engine operation for maintenance and testing purposes shall not exceed 20 hours per calendar year. (17 CCR 93115)
6. This engine shall not operate for non-emergency use during the following periods, as applicable:
  - (a) whenever there is any school sponsored activity, if engine is located on school grounds or
  - (b) between 7:30am and 3:30pm on days when school is in session, if the engine is located within 500 feet of, but not on, school grounds.This condition shall not apply to an engine located at or near any school grounds that also serve as the students' place of residence. (17 CCR 93115)
7. This engine shall only use CARB diesel fuel. (Rule 12, 17 CCR 93115)
10. Engine operation in response to notification of an impending rotating outage, shall be subject to all the following restrictions:
  - (a) the utility distribution company has ordered rotating outages in the control area where the engine is located.
  - (b) the engine is operated no more than 30 minutes prior to the time when the utility distribution company officially forecasts a rotating outage in the cited control area, and
  - (c) the engine operation is terminated immediately after the utility distribution company advises that a rotating outage is no longer in effect.This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115 (e)(2)(f). (17CCR93115)
11. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operating hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
  - (a) old meter's hour reading
  - (b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter, and
  - (c) copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 12, 17 CCR 93115)
15. The Owner or Operator of this engine shall keep the following records:
  - (a) applicable fuel certification
  - (b) manual of recommended maintenance provided by the manufacturer
  - (c) other maintenance procedure as approved in writing, in advance, by the DistrictThese records shall be kept on-site for at least three years. These records shall be made available to the District upon request. (Rule 12)
16. The owner or operator of this engine shall maintain an operating log containing, at a minimum, the following:
  - (a) dates and times of engine operation, whether the operation was for compliance with the testing requirements of the National Fire Protection Association (NFPA) 25 or emergency use, and the nature of the emergency if known;
  - (b) hours of operation for all uses other than those specified above and identification of the nature of that use.
  - (c) records of annual engine maintenance, including date the maintenance was performed.These records shall be made available to the Air Pollution Control District upon request. (Rule 12 or Rule 69.4.1 or 17CCR93115)
23. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.



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**Sectors:** 1, C  
**Site ID:** APCD1982-SITE-00195  
**App ID:** APCD1996-CER-960330

**PERMIT ID**  
**APCD2006-PTO-960330**  


24. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: APCD1997-APP-961265

PERMIT ID  
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### EQUIPMENT OWNER

### EQUIPMENT DESCRIPTION

MARINE COATING OPERATION: OUTDOOR, EQUIPPED WITH AIR-DRYING, ONE (1) GRACO MODEL 390 HVLP SPRAY GUN, ONE (1) AIRLESS SPRAY GUN, BRUSH AND ROLLER TO NON-CHROME PIGMENTED RULE 67.18 COMPLIANT COATINGS.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27A] Marine Coating  
BEC: 12588

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

1. Permittee shall not conduct any spray application of coatings containing compounds of chromium (Cr) or lead (Pb). For the purposes of this condition, spray application means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. Spray-applied coatings do not include the following materials or activities: coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters) or surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electro deposition coating, web coating, coil coating, touch-up markers, or marking pens. [40 CFR 63 Subpart HHHHHH]
2. Permittee shall operate the coating operations described above in compliance with all applicable standards of Rule 67.18 Section (d), including surface preparation and cleanup requirements, coating VOC limits and application equipment cleanup requirements. [Rule 67.18]
3. Permittee shall maintain records for the coating operations described above in accordance with all applicable requirements of Rule 67.18 Section (f). [Rule 67.18]



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
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Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: APCD1997-APP-961265

**PERMIT ID**  
APCD2003-PTO-961265



4. Total emissions of Volatile Organic Compounds (VOC) shall not exceed 0.99 tons in any 12 consecutive calendar month period (12-month period). For each calendar month, the permittee shall calculate and record the total VOC emissions and calculate record the total VOC emissions for the 12-month period that ends in the month the calculations shall be completed by the end of the following calendar month. [NSR]
5. The permittee shall not use more than 38 gallons of combined xylene-based coatings and solvents in any one hour of operation and not more than 102 gallons of combined xylene-based and toluene-based coatings in any consecutive 12 months of operation. [NSR; Rule 67.18]
6. Coating and solvent usage records shall be maintained on site for at least three years and shall be made available to the District upon request. These records shall at minimum contain the following information: manufacturer's identification number, mix ratios and volumes of each material containing VOCs used. [NSR; Rule 67.18]
8. Permittee shall maintain current MSDS's or manufacturer's specifications which identify the VOC content, Toxic Air Contaminant content, vapor pressure or initial boiling point, as applicable, for all materials containing VOCs and Toxic Air Contaminants used in the operation described above.  
[Rule 67.18]
9. The permittee shall maintain a permanent air pressure at the air cap of High Volume Low Pressure (HVLP) coating application equipment in the range of 0.1 to 10 psig. The permittee will have available on site pressure gauge(s) in proper operating condition to measure the air cap pressure of coating application equipment or have available manufacturer's technical information showing the correlation between the handle air inlet pressure and the air cap pressure. If the correlation option specified above is chosen to demonstrate compliance, a handle air inlet pressure gauge will be required on site in proper operating condition to measure the handle air inlet pressure. This condition applies only to those operations that claim the use of HVLP application equipment to comply with District Rules. [NSR]
10. Beginning December 1, 2003, for each calendar month and 12-consecutive calendar month period (12-month period) that ends in that calendar month, the permittee shall maintain calendar monthly records of the total volume of coatings used, as applied. The total usage for each calendar month and 12-month period shall be calculated within 15 days of the end of the calendar month. If the total usage of coatings exceeds 250 gallons in any 12-month period, the permittee shall thereafter comply with the applicable requirements of 40 CFR 63 Subparts II and A. [40 CFR 63 Subpart II]
11. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

7. Permittee shall not use marine coatings that contain Toxic Air Contaminants specified in Rule 1200 (Revision effective 6/12/96) except xylene and toluene. [Rule 1200]
12. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
13. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



Sectors: 1, C  
Site ID: APCD1982-SITE-00195  
App ID: APCD2007-APP-985986

PERMIT ID  
APCD2008-PTO-970274

Cabrillo Power I LLC  
Plant Manager  
4600 Carlsbad Blvd  
Carlsbad CA, 92008

EQUIPMENT ADDRESS  
Cabrillo Power I LLC  
Tim Sisk  
4600 Carlsbad Blvd  
Carlsbad CA 92008

## PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

### EQUIPMENT OWNER

### EQUIPMENT DESCRIPTION

CUMMINS DIESEL ENGINE, MODEL V8-300-B1, S/N 66321, 265 BHP, USED AS A GAS TURBINE STARTER ENGINE.  
973407 6/99, 985846/SJE

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34D] Engine for Non-Emergency & Non-Cogeneration  
BEC: APCD2013-CON-000697

### FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

#### **A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS**

2. Permittee must operate and maintain the stationary engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The periodic maintenance shall be conducted at least once per calendar year. [Rule 69.4.1, 17 CCR 93115, and 40 CFR Subpart ZZZZ §63.6625(e)(6)]
3. The owner or operator shall minimize engine operating time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Subpart ZZZZ §63.6625(h)]
4. The engine and any associated control equipment and monitoring equipment, shall be operated and maintained at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require further efforts to reduce emissions if the equipment is in compliance with all requirements of this authorization. Compliance with this requirement will be based on available information, including but not limited to operations and maintenance procedures, control systems statements, records, test results and reports and equipment inspection. [40 CFR Subpart ZZZZ §63.6605(b)]



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7. The equipment described above shall not cause or contribute to a public nuisance. [Rule 51]
8. Visible emissions including crank case smoke shall comply with Rule 50. [Rule 50]
10. The owner or operator shall change engine oil and filter every 500 hours of operation or annually, whichever comes first; or test the oil in accordance with 40 CFR § 63.6625(i). [40 CFR 63 Subpart ZZZZ § 63.6603(a) and Table 2d(4)(a)]
11. The owner or operator shall inspect the air cleaner of a compression ignition engine or inspect spark plugs of a spark ignition engine, every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ §63.6603(a) and Table 2d(4)(b) or Table 2d(5)(b)]
12. The owner or operator shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ §63.6603(a) and Table 2d(4)(c)]
15. The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 60 months following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 24 months of data shall be retained on site. The remaining 36 months of data may be retained off site. Records kept off site shall be made available to the APCD within 5 working days of a request. [40 CFR 63, General Provisions §63.10(b)]
16. The owner or operator shall submit a semiannual compliance report recording each instance in which the facility did not meet the requirements in Table 2d to 40 CFR 63, subpart ZZZZ. [40 CFR 63 Subpart ZZZZ §63.6640 (a-b)]
17. For the purposes of this authorization "deviation" shall have the same meaning as in 40 CFR 63 subpart ZZZZ. Generally, it is any time that the owner or operator failed to meet any requirement of 40 CFR 63 subpart ZZZZ contained in this authorization, including the general duty to minimize emissions at all times as required by 40 CFR 63.6(e)(1)(i). [40 CFR 63 Subpart ZZZZ and 40 CFR 63.6(e)(1)(i)]
18. The owner or operator shall submit a semiannual compliance report to the District by the end of the month following each reporting period. Reporting periods are January 1 through June 30 and July 1 through December 31. The semiannual compliance report shall contain:
  - (a) Company name and address,
  - (b) Statement by a responsible official (with name, title, and signature) certifying the accuracy of the report content,
  - (c) Date of report and dates of reporting period,
  - (d) The number, duration, and a brief description for each type of deviation which occurred during the reporting period and a description of actions taken to minimize emission and corrective actions taken,
  - (e) If there are no deviations from requirements, a statement that there were no deviations
  - (f) If there are deviations during the reporting period, the following information shall be included:
    1. Date and time that each malfunction started and stopped,
    2. A summary of total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during the reporting period. [40 CFR 63, Subpart ZZZZ §63.6650(b-d)]
19. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in 40CFR 63 Subpart ZZZZ in the semiannual monitoring report. If an affected source submits a compliance report pursuant to Table 7 of 40CFR 63 Subpart ZZZZ along with, or as part of, the Title V semiannual monitoring report, and the compliance report includes all required information concerning deviations from any emission or operating limitation in 40CFR 63 Subpart ZZZZ, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. [40CFR 63 Subpart ZZZZ §63.6650(f)]
20. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

**B. DISTRICT-ONLY ENFORCEABLE CONDITIONS**

1. Total engine operation shall not exceed 20 hours per calendar year. [17 CCR 93115.10, Rule 69.4.1]
5. The Engine shall be located more than 500 feet from any school (as defined in 17 CCR 93115.4(A)(67)) at all times. [17 CCR 93115.3]



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6. This engine shall only use CARB diesel fuel. [Rule 69.4.1, 17 CCR 93115]
9. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operating hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
  - (a) old meter's hour reading.
  - (b) replacement meter's manufacturer name, model, and serial number if available and current hour reading on replacement meter.
  - (c) copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. [Rule 69.4.1]
13. The owner or operator of this engine shall keep the following records:
  - (a) applicable fuel certification
  - (b) manual of recommended maintenance provided by the manufacturer
  - (c) other maintenance procedure as approved in writing, in advance, by the DistrictThese records shall be kept on-site for at least the same period of time as the engine to which the records apply is located at the site. These records shall be made available to the District upon request. [Rule 69.4.1]
14. The owner or operator of this engine shall maintain an operating log containing, at a minimum, the following:
  - (a) records of monthly engine hours of operation;
  - (b) records of annual engine maintenance, including date the maintenance was performed.These records shall be made available to the Air Pollution Control District upon request. [Rule 12 or Rule 69.4.1 or 17 CCR 93115]
21. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
22. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act [California Health and Safety Code Section 44300 et seq.]

## APPENDIX B: RULE REFERENCE TABLE

Rule Citation <sup>1</sup>	RULE TITLE	A/R <sup>2</sup>	District Adoption Date <sup>3</sup>	SIP FR Approval Date
	<b>REGULATION I - GENERAL PROVISIONS</b>			
1	Title	F	04/30/80	09/28/81
2	Definitions	F	11/04/09	09/17/10
4	Review of Rules	F	01/01/70 <sup>†</sup>	09/22/72
5	Authority to Arrest	F	03/24/76 <sup>†</sup>	05/11/77
	<b>REGULATION II - PERMITS</b>			
10	Permits Required	F	07/25/95	03/11/98
10.1 <sup>††</sup>	NSPS & NESHAPS Requirements	D	11/8/76	N/A
11	Exemptions from Rule 10 Permit Requirements	D/F	09/20/78	07/06/82
12	Registration of Specified Equipment	D	11/15/00	N/A
12.1	Portable Equipment Registration	D	05/21/97	N/A
14	Applications	F	04/30/80	09/28/81
15	Permit Process - Public Notifications	D/F	09/18/90	Pending
17	Cancellation of Applications	F	04/06/93	03/11/98
18	Action on Applications	F	01/17/72	09/22/72
18	Action on Applications	D/F	09/18/90	Pending
19	Provision of Sampling and Testing Facilities	F	04/06/93	03/11/98
19.1 <sup>††</sup>	NSPS & NESHAPS Provision of Sampling and Testing Facilities Requirements	D	11/08/76	N/A
19.2	Continuous Emission Monitoring Requirements	F	01/12/79	09/28/81
19.3	Emission Information	F	5/15/96	03/09/00
20	Standards for Granting Permits	D/F	04/25/89	Pending
20.1	Definitions, Emission Calculations, Emission Offsets and Banking, Exemptions, and Other Requirements	F	07/05/79	04/14/81
20.1	NSR - General Provisions	D/F	12/17/98	Pending
20.2	Standards for Authority to Construct - Best Available Air Pollution Control Technology	F	07/05/79	04/14/81
20.2	NSR - Non-major Stationary Sources	D/F	12/17/98	Pending
20.3	Standards for Authority to Construct - Air Quality Analysis	F	07/05/09	04/14/81
20.3	NSR - Major Stationary Source and PSD Stationary Source	D/F	12/17/98	Pending
20.4	Standards for Authority to Construct - Major Stationary Sources	F	07/05/09	04/14/81
20.4	NSR - Portable Emission Units	D/F	12/17/98	Pending
20.5	Power Plants	F	07/05/79	04/14/81
20.6	Standards for Permit to Operate - Air Quality Analysis	F	07/05/79	04/14/81
20.6	Standards for Permit to Operate Air Quality Analysis	D/F	12/14/87	Pending
20.8	Special Offset Requirement Relating to Banking	D	2/16/83	N/A
21	Permit Conditions	F	11/29/94	03/11/98
22	Denial of Applications	D/F	01/01/69 <sup>†</sup>	N/A

23	Further Information	D/F	01/01/69 <sup>†</sup>	N/A
24	Temporary Permit to Operate	F	03/20/96	10/24/08
25	Appeals	F	01/01/69 <sup>†</sup>	09/22/72
25	Appeals	D/F	06/21/00	Pending
26.0	Banking of Emission Reduction Credits (ERCs) - General Requirements	D/F	10/22/97	Pending
26.1	Standards for Granting Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.2	Use of Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.3	Reclassification of Class B Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.4	Permanency of Banked Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.5	Transfer of Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.6	District Banking of Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.7	Shutdown and Related Emission Unit	D/F	10/22/97	Pending
26.8	Banking of Limited Emission Reductions	D/F	10/22/97	Pending
26.9	Emission Reduction Credit Certificates and The Emission Reduction Credit Register	D/F	10/22/97	Pending
26.10	Banking For BRAC Military Base Closure or Realignment Actions	D/F	10/22/97	Pending
27	Banking of Mobile Source Emission Reduction Credits	D/F	11/29/94	Pending
27.1	Federal Requirements for San Diego County APCD Alternative Mobile Source Emission Reduction Program Approved On 9/8/2000	F	08/06/08	06/03/09
	<b>REGULATIONS III - FEES</b>			
40	Permit Fees	D	01/01/12	N/A
42	Hearing Board Fees	D	07/01/00	N/A
44	Technical Reports, Charges for	D	12/7/83	N/A
	<b>REGULATIONS IV - PROHIBITIONS</b>			
50	Visible Emissions	F	08/13/97	12/7/98
50.1 <sup>††</sup>	NSPS & NESHAPS Visible Emissions Requirements	D	11/08/76	N/A
51	Nuisance	F	01/01/69 <sup>†</sup>	09/22/72
52	Particulate Matter	F	01/22/97	12/9/98
52.1 <sup>††</sup>	NSPS & NESHAPS Particular Matter Requirements	D	11/08/76	N/A
53	Specific Contaminants	F	01/22/97	12/9/98
53.1	Scavenger Plants	F	01/01/69 <sup>†</sup>	09/22/72
53.2 <sup>††</sup>	NSPS & NESHAPS Specific Contaminants Requirements	D	11/08/76	N/A
54	Dusts and Fumes	F	01/22/97	12/9/98
54.1	NSPS & NESHAP Dust and Fumes Requirement	D	11/08/76	N/A
58	Incinerator Burning	F	01/17/73 <sup>†</sup>	05/11/77
59	Control of Waste Disposal - Site Emissions	D	11/03/87	N/A
59.1	Municipal Solid Waste Landfills	D	06/17/98	N/A
60	Circumvention	F	05/17/94	03/09/00
60.2	Limiting Potential to Emit - Synthetic Minor Sources	D	04/04/12	N/A
61.0	Definitions Pertaining to the Storage & Handling of Organic Compounds	F	10/16/90	09/13/93

61.1	Receiving & Storing Volatile Organic Compounds at Bulk Plants & Bulk Terminals	F	01/10/95	08/08/95
61.2	Transfer of Volatile Organic Compounds into Mobile Transport Tanks	F	07/26/00	08/26/03
61.3	Transfer of Volatile Organic Compounds into Stationary Storage Tanks	F	10/16/90	06/30/93
61.3.1	Transfer of Gasoline into Stationary Underground Storage Tanks	D	03/01/06	Pending
61.4	Transfer of Volatile Organic Compounds into Vehicle Fuel Tanks	F	10/16/90	05/13/93
61.4	Transfer of Volatile Organic Compounds into Vehicle Fuel Tanks	D/F	03/26/08	Pending
61.4.1	Transfer of Gasoline from Stationary Underground Storage Tanks into Vehicles Fuel Tanks	D	03/01/06	N/A
61.5	Visible Emission Standards for Vapor Control Systems	F	09/20/78 <sup>†</sup>	04/14/81
61.6	NSPS Requirements for Storage of Volatile Organic Compounds	D	01/13/87	Withdrawn
61.7	Spillage and Leakage of Volatile Organic Compounds	F	01/13/87	03/11/98
61.8	Certification Requirements for Vapor Control Equipment	F	01/13/87	03/11/98
62	Sulfur Content of Fuels	F	10/21/81	07/06/82
62.1 <sup>††</sup>	NSPS Requirements for Sulfur Content of Fuels	D	11/08/76	N/A
64	Reduction of Animal Matter	F	08/21/81	07/06/82
66	Organic Solvents	F	07/25/95	Repealed
66.1	Miscellaneous Surface Coating Operations and Other Processes Emitting VOCs	D/F	2/24/10	08/09/12
67.0	Architectural Coatings	F	12/12/01	Withdrawn
67.0.1	Architectural Coatings	D/F	06/24/15	Pending
67.1	Alternative Emission Control Plans	F	05/15/96	03/27/97
67.2	Dry Cleaning Equipment Using Petroleum - Based Solvent	F	05/15/96	03/27/97
67.3	Metal Parts and Products Coating Operations	F	04/09/03	11/14/03
67.4	Metal Container, Metal Closure and Metal Coil Coating Operations	F	11/09/11	09/20/12
67.5	Paper, Film and Fabric Coating Operations	F	05/15/96	03/27/97
67.6.1	Cold Solvent Cleaning and Stripping Operations	F	5/23/07	10/13/09
67.6.2	Vapor Degreasing Operations	F	5/23/07	10/13/09
67.7	Cutback and Emulsified Asphalts	F	05/15/96	03/27/97
67.9	Aerospace Coating Operations	F	04/30/97	08/17/98
67.10	Kelp Processing and Bio-Polymer Manufacturing	F	06/25/97	06/22/98
67.11	Wood Parts and Products Coating Operations	F	06/27/12	04/11/13
67.11.1	Large Coating Operations for Wood Products	F	09/25/02	06/05/03
67.12	Polyester Resin Operations	F	05/15/96	03/27/97
67.15	Pharmaceutical and Cosmetic Manufacturing Operations	F	05/15/96	03/27/97
67.16	Graphic Arts Operations	F	05/09/12	09/20/12
67.17	Storage of Materials Containing Volatile Organic Compounds	F	05/15/96	03/27/97
67.18	Marine Coating Operations	F	05/15/96	03/27/97
67.19	Coating and Printing Inks Manufacturing Operations	F	05/15/96	05/26/00
67.20.1	Motor Vehicle and Mobile Equipment Coating Operations	D	06/30/10	N/A

67.21	Adhesive Material Application Operations	D	11/14/08	N/A
67.22	Expandable Polystyrene Foam Products Manufacturing Operations	D	05/15/96	N/A
67.24	Bakery Ovens	F	05/15/96	03/27/97
68	Fuel-Burning Equipment – Oxides of Nitrogen	F	09/20/94	04/09/96
68.1††	NSPS Requirements for Oxides of Nitrogen from Fuel-Burning Equipment	D	11/08/76	N/A
69	Electrical Generating Steam Boilers, Replacement Units & New Units	D	12/12/95	N/A
69.2	Industrial & Commercial Boilers, Process Heaters & Steam Generators	F	09/27/94	02/09/96
69.2.1	Small Boilers, Process Heaters and Steam Generators	D	03/25/09	N/A
69.3	Stationary Gas Turbine Engines	F	09/27/94	06/17/97
69.3	Stationary Gas Turbine Engines – RACT	D/F	12/16/98	Pending
69.3.1	Stationary Gas Turbine Engines – BARCT	D	02/24/10	N/A
69.4	Stationary Internal Combustion Engines	F	07/30/03	01/04/06
69.4	Stationary Internal Combustion Engines – RACT	D/F	07/30/03	2/25/04
69.4.1	Stationary Internal Combustion Engines - BARCT	D	11/15/00	N/A
69.5	Natural Gas-Fired Water Heaters	D	01/01/99	N/A
69.5.1	Natural Gas-Fired Water Heaters	D	06/24/15	N/A
69.6	Natural Gas-Fired Fan-Type Central Furnaces	D	06/17/98	N/A
70	Orchard Heaters	F	01/17/72	09/22/72
71	Abrasive Blasting	F	03/30/77	08/31/78
	<b>REGULATION V - PROCEDURES BEFORE THE HEARING BOARD</b>			
75	Procedure Before the Hearing Board	D/F	09/17/85	Pending
75.1††	NSPS & NESHAPS Variance Procedures	D	09/17/85	7/30/79
97	Emergency Variance	D/F	07/25/95	Pending
98	Breakdown Conditions: Emergency Variance	D	07/25/95	Withdrawn
	<b>REGULATION VI - BURNING CONTROL</b>			
101	Burning Control	F	09/25/02	04/30/03
	<b>REGULATION VII - VALIDITY AND EFFECTIVE DATE</b>			
140	Validity	F	01/01/69†	09/22/72
141	Effective Date	F	01/01/69†	09/22/72
	<b>REGULATION VIII - SAN DIEGO AIR POLLUTION EMERGENCY PLAN</b>			
126	Applicability	F	05/25/77	08/31/78
127	Episode Criteria Levels	F	09/17/91	03/18/99
128	Episode Declaration	F	09/17/91	03/18/99
129	Episode Termination	F	05/25/77	08/31/78
130	Episode Actions	F	09/17/91	03/18/99
131	Stationary Source Curtailment Plan	F	04/01/81	06/21/82
132	Traffic Abatement Plan	F	04/01/81	06/21/82

132	Traffic Abatement Plan	D/F	12/17/97	Pending
133	Schools	F	05/25/77	08/31/78
134	Source Inspection	F	04/01/81	06/21/82
135	Air Monitoring Stations	F	05/25/77	08/31/78
136	Interdistrict and Interbasin Coordination	F	05/25/77	08/31/78
137	Emergency Action Committee	F	05/25/77	08/31/78
138	Procedures and Plans	F	05/25/77	08/31/78
	APPENDIX A - Persons to be Notified on Episode Declaration	F		
<b>REGULATION IX - PUBLIC RECORDS</b>				
175	General	F	05/22/74†	05/11/77
176	Information Supplied to District	F	05/22/74†	05/11/77
177	Inspection of Public Records	F	03/30/77	08/31/78
177	Inspection of Public Records	D/F	06/20/01	Pending
<b>REGULATION XII - TOXIC AIR CONTAMINANTS</b>				
1200	Toxic Air Contaminants - New Source Review	D	06/12/96	N/A
1202	Hexavalent Chromium - Cooling Towers	D	07/25/95	N/A
1203	Ethylene Oxide Sterilizers and Aerators	D	07/26/00	N/A
1205	Control of Dioxins Emissions from Medical Waste Incinerators	D	01/01/94	N/A
1210	Toxic Air Contaminant Public Health Risks - Public Notification and Risk Reduction	D	06/12/96	N/A

1.

<b>REGULATION XIV - TITLE V OPERATING PERMITS</b>				
1401	General Provisions	F	02/27/04	02/27/04
1410	Permit Required	F	02/27/04	02/27/04
1411	Exemption from Permit to Operate for Insignificant Units	F	03/07/95	11/30/01
1412	Federal Acid Rain Program Requirements	F	01/18/94	11/30/01
1413	Early Reduction of Hazardous Air Pollutants	F	03/07/95	11/30/01
1414	Applications	F	03/07/95	11/30/01
1415	Permit Process-Public Notification	F	02/27/04	02/27/04
1417	Pendency & Cancellation of Applications	F	03/07/95	11/30/01
1418	Action on Applications	F	02/27/04	11/30/01
1419	Provisions of Sampling & Testing Facilities & Emission Information	F	03/07/95	11/30/01
1420	Standards for Granting Permits	F	03/07/95	11/30/01
1421	Permit Conditions	F	02/27/04	02/27/04
1422	Denial or Cancellation Of Applications	F	03/07/95	11/30/01
1423	Further Information	F	01/18/94	11/30/01
1424	Applications Deemed Denied	F	01/18/94	11/30/01
1425	Appeals & Judicial Review	F	02/27/04	02/27/04
	APPENDIX A - Insignificant Units	F	02/27/04	11/30/01
<b>REGULATION XV - FEDERAL CONFORMITY</b>				
1501	Conformity of General Federal Actions	F	06/22/99	04/23/99

The following NSPS and NESHAP have been adopted locally by the District. EPA has granted the District delegation for each of these rules. Therefore, these rules, as adopted by the District are the federally applicable requirements. For all other NSPS and NESHAP, the versions cited in the CFR are the federally applicable requirements.

<b>Subpart &amp; Citation</b>	<b>RULE TITLE</b>	<b>District Adoption Date</b>	<b>Federal Delegation Date</b>
<b>Part 60 REGULATION X - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES</b>			
A	General Provisions	Unknown 11/03/92	11/08/76
E	Standards of Performance for Incinerators	Unknown	03/30/77
I	Standards of Performance for Asphalt Concrete Plants	Unknown 01/13/87	11/08/76
L	Standards of Performance for Secondary Lead Smelters	Unknown	11/08/76
M	Standards of Performance for Secondary Brass and Bronze Ingot Production Plants	Unknown 09/17/85	03/30/77
O	Standards of Performance for Sewage Treatment Plants	01/13/87	09/17/87
DD	Standards of Performance for Grain Elevators	Unknown	05/24/82
EE	Standards of Performance for Surface Coating Metal Furniture	03/04/86 11/03/92	03/19/87
QQ	Standards of Performance for the Graphic Arts Industry: Publication Rotogravure Printing	08/24/83	12/22/83
RR	Standards of Performance for Pressure Sensitive Tape and Label Surface Coating Operations	09/17/86 11/03/92	03/19/87
SS	Standards of Performance for the Industrial Surface Coating Large Appliances	02/22/84 11/03/92	04/24/84
TT	Standards of Performance for Metal Coil Surface Coating	02/22/84 11/03/92	04/24/84
BBB	Standards of Performance for the Rubber Tire Manufacturing Industry	03/14/89	07/18/89
FFF	Standards of Performance for Flexible Vinyl and Urethane Coating and Printing	09/17/86	03/19/87
JJJ	Standards of Performance for Petroleum Dry Cleaners	12/15/87	07/18/89
<b>Part 61 REGULATION XI- NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS)</b>			
A	General Provisions	01/13/87	05/24/82
C	National Emission Standard for Beryllium	Unknown	11/08/76
D	National Emission Standard for Beryllium Rocket Motor Firing	Unknown	11/08/76
E	National Emission Standard for Mercury	03/27/90	05/17/91
F	National Emission Standard for Vinyl Chloride	08/17/77 06/16/78	11/21/77
M	National Emission Standard for Asbestos	06/04/85 02/01/95	07/18/89

The following ATCM and NESHAP have not been adopted by the District, but are being implemented and enforced by the District as ATCM's.

Subpart & Citation	RULE TITLE	A/R	Most Recent Adoption Date
<b>DISTRICT RULES AND REGULATIONS APPENDIX A - CALIFORNIA AIRBORNE TOXIC CONTROL MEASURES (ATCM)</b>			
17 CCR § 93102	Hexavalent Chromium ATCM for Chrome Plating & Chromic Acid Anodizing Operations	D/F	12/7/06
17 CCR § 93109	ATCM For Emissions of Perchloroethylene From Dry Cleaning Operations	F	01/25/07
17 CCR § 93101.5	ATCM to Reduce Emissions of Hexavalent Chromium and Nickel from Thermal Spraying	D	09/30/05
17 CCR § 93105	ATCM for Construction, Grading, Quarrying, and Surface Mining Operations	D	07/26/01
17 CCR § 93106	Asbestos ATCM for Surface Applications	D	07/20/00
17 CCR § 93107	ATCM For Emissions of Toxic Metals From Non-Ferrous Metal Melting	D	01/14/93
17 CCR § 93111	ATCM for Emissions of Chlorinated Toxic Air Contaminants from Automotive Maintenance & Repair Activities	D	04/27/00
17 CCR § 93112	ATCM for Emissions of Hexavalent Chromium and Cadmium from Motor Vehicle and Motor Equipment Coatings	D	09/20/01
17 CCR § 93113	ATCM to Reduce Emissions of Toxic Air Contaminants from Outdoor Residential Waste Burning	D	02/03/03
17 CCR § 93115	ATCM for Stationary Compression Ignition Engines	D	05/19/11
17 CCR § 93116	ATCM for Portable Diesel-Fueled Engines	D	02/19/11
<b>DISTRICT RULES AND REGULATIONS APPENDIX B - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR SOURCE CATEGORIES</b>			
Part 63			
A	General Provisions	F	05/16/07
N	Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks	F	04/20/06
O	Ethylene Oxide Sterilization Facilities	F	12/28/07
R	Gasoline Distribution	F	01/24/11
T	Halogenated Solvent Cleaning	F	09/08/00
DD	Off-site Waste & Recovery Operations	F	07/20/99
GG	Aerospace Manufacturing and Rework Facilities	F	12/08/00
II	Shipbuilding and Ship Repair (Surface Coating)	F	12/15/95
JJ	Wood Furniture Manufacturing Operations	F	12/28/98
VVV	Publicly Owned Treatment Works	F	10/21/02
AAAA	Municipal Solid Waste Landfills	F	01/16/03
EEEE	Organic Liquids Distribution (non-gasoline)	F	07/17/08
MMMM	Surface Coating of Miscellaneous Metal Parts and Products	F	04/26/04
PPPP	Plastic Parts (surface coating)	F	04/24/07
SSSS	Surface Coating of Metal Coil	F	03/17/03
VVVV	Boat Manufacturing	F	08/22/01
WWWW	Reinforced Plastic Composites Production	F	8/25/05

YYYY	Stationary Combustion Turbines	F	08/18/04
ZZZZ	Stationary Reciprocating Internal Combustion Engines	F	03/09/11
DDDDD	Industrial, Commercial, and Institutional Boilers and Process Heaters	F	05/18/11
GGGGG	Site Remediation	F	11/29/06
HHHHH	Miscellaneous Coating Manufacturing	F	10/04/06
PPPPP	Engine Test Cells/Stands	F	08/28/03
WWWWW	Hospital Ethylene Oxide Sterilizers Area Sources	F	12/28/07
BBBBBB	Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities	F	01/24/11
CCCCCC	Gasoline Dispensing Facilities	F	01/24/11
HHHHHH	Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources	F	01/09/08
JJJJJ	Area Sources: Industrial, Commercial, and Institutional Boilers	F	3/21/11
QQQQQ	Wood Preserving Area Sources	F	07/16/07
VVVVV	Chemical Manufacturing Area Sources	F	11/29/09
WWWWW	Plating and Polishing Operations Area Sources	F	07/01/08
XXXXXX	Metal Fabrication and Finishing Area Sources	F	7/23/08
AAAAAAA	Asphalt Processing and Asphalt Roofing Manufacturing Area Sources	F	12/02/09
CCCCCCC	Paint and Allied Products Manufacture Area Sources	F	12/03/09

2.

The following NSPS have been adopted by the District by reference. The rules listed below are the CFR versions of these rules which are federally applicable requirements.

<b>Subpart &amp; Citation</b>	<b>RULE TITLE</b>	<b>Latest EPA Promulgation Date</b>	<b>District Adoption Date</b>	<b>Delegation Date</b>
<b>Part 60</b>	<b>DISTRICT RULES AND REGULATIONS APPENDIX C - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (NSPS)</b>			
D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971	10/17/00 01/28/09	10/17/01 06/24/09	01/03/08 Pending
Da	Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978	06/11/01 01/28/09	10/17/01 06/24/09	01/03/08 Pending
Db	Standards of Performance for Industrial-Commercial - Institutional Steam Generating Units	10/01/01 01/28/09	04/25/01 06/24/09	01/03/08 Pending
Dc	Standards of Performance for Small Industrial-Commercial -Institutional Steam Generating Units	05/08/96 01/28/09	08/13/97 06/24/09	06/24/98 Pending
GG	Standards of Performance for Stationary Gas Turbines	06/27/89 02/24/06	10/17/01 02/25/09	01/03/08 Pending
K	Standards of Performance for Storage Vessels for Petroleum Liquids Construct After June 11, 1973 and Prior to May 19, 1978	10/17/00	06/20/07	01/03/08
Ka	Standards of Performance for Storage Vessels for Petroleum Liquids Construction after May 18, 1978	12/14/00	06/20/07	01/03/08
Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	10/15/03	06/20/07	01/03/08
AAA	Standards of Performance for New Residential Wood Heaters	06/12/99 10/17/00	04/12/00 N/A	01/03/08 N/A
OOO	Standards of Performance for Nonmetallic Mineral Processing Plants	06/09/97 10/17/00	04/28/99 N/A	05/28/02 N/A
UUU	Standards of Performance for Calciners and Dryers in Mineral Industries	07/29/93 10/17/00	11/17/99 N/A	05/28/02 N/A
VVV	Standards for Polymeric Coating of Supporting Substrates Facilities	09/11/89	05/23/07	01/03/08
WWW	Standards of Performance for Municipal Solid Waste Landfills	04/10/00	08/13/97	06/24/98
AAAA	Standards of Performance for Small Municipal Waste Combustion Units	12/06/00	06/20/07	01/03/08
CCCC	Standards of Performance for Commercial and Industrial Solid Waste Incineration Units	12/01/00	06/20/07	01/03/08
EEEE	Standards of Performance for Other Solid Waste Incineration Units	12/16/05	06/20/07	01/03/08
KKKK	Standards of Performance for Stationary Combustion Turbines	07/06/06	02/25/09	06/01/09

The following NSPS have not been adopted by the District and are not delegated to the District. However, the District has the authority to enforce the NSPS through the Title V program. The rules listed below are the CFR versions of these rules, which are federally applicable requirements.

<b>Subpart &amp; Citation</b>	<b>RULE TITLE</b>	<b>Latest EPA Promulgation Date</b>	<b>District Adoption Date</b>	<b>Delegation Date</b>
<b>Part 60</b>				
III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	07/11/06	N/A	N/A
JJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	01/18/08	N/A	N/A

1. Rule Citations marked with an “††” contain no substantive requirements and are listed for informational purposes only.
2. ‘A/R’ Denotes enforceability of the listed applicable requirement as follows:
  - ‘F’ Denotes a Federal applicable requirement that is federally enforceable and District enforceable.
  - ‘D/F’ Denotes a District applicable requirement which is pending SIP approval. When such a rule receives SIP approval, it supersedes the existing SIP rule and becomes the Federal applicable requirement.
  - ‘D’ Denotes a District only applicable requirement. This may include some state requirements that are enforceable by the District.
3. District adoption dates marked with an “†” are the effective date of the rule, the actual adoption date is uncertain.
4. On September 17, 2010, EPA approved the District’s November, 4, 2009, revision to the table of exempt compounds in Rule 2, which can be administratively amended without Board action to amend the rule.

## APPENDIX C: ABBREVIATIONS THAT MAY APPEAR IN THIS PERMIT

APCO	Air Pollution Control Officer
ASTM	American Society for Testing and Methods
BACT	Best Available Control Technology
CAA	federal Clean Air Act
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
District	San Diego County Air Pollution Control District
EF	Emission Factor
EPA	US Environmental Protection Agency
HAP	Hazardous Air Pollutant
I&M	Inspection and Maintenance
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
[NSR]	New Source Review based condition
NO <sub>x</sub>	Oxides of nitrogen
O <sub>2</sub>	Oxygen
OES	Office of Environmental Services
O&M	Operation and maintenance
Pb	Lead
PM	Total Particulate Matter
PM <sub>10</sub>	Particulate matter with aerodynamic equivalent diameter of $\leq 10$ microns
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SDCAPCD	San Diego County Air Pollution Control District
SIP	State Implementation Plan
SO <sub>x</sub>	Oxides of sulfur
Title IV	Title IV of the federal Clean Air Act
Title V	Title V of the federal Clean Air Act
VOC	Volatile organic compound

### Units of Measure:

dscf	=	Dry standard cubic foot
g	=	grams
gal	=	gallon
gr/dscf	=	Grains per dry standard cubic foot
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
min	=	minute
MM Btu	=	Million British thermal units
psia	=	pounds per square inch, absolute
scf	=	Standard cubic foot
scfm	=	standard cubic feet per minute
yr	=	year