

---

---

**San Diego County Air Pollution Control District**

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

---

---

**TITLE V OPERATING PERMIT  
APCD2007-PTO-978248**

**Issued To:**

Diamond Generating Corporation  
Site ID # APCD2001-SITE-04109

**Site Address:**

Street Address  
9355 Otay Mesa Road, San Diego, CA 921545  
(213) 473-0092 (ph#)

**Mailing Address**

333 South Grand Ave. #1570  
Los Angeles, CA 90071

**Bohdan Buchynsky** – Responsible Official

**Mike Carpenter** – Plant Manager

**Bohdan Buchynsky** – Vice President

---

---

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

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

---

Jim Swaney, P.E., Chief of Engineering

Date

# TABLE OF CONTENTS

	<b>PAGE</b>
<b>PREAMBLE</b>	<b>1</b>
<b>SECTION I. REGULATION XIV PERMIT REQUIREMENTS</b>	<b>2</b>
A. ADMINISTRATIVE PERMIT TERMS	2
B. RENEWAL REQUIREMENTS AND TERMS	2
C. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS	3
D. GENERAL PERMIT REQUIREMENTS	4
<b>SECTION II. FACILITY-WIDE REQUIREMENTS</b>	<b>5</b>
A. GENERAL PERMIT PROGRAM APPLICABLE REQUIREMENTS	5
B. GENERAL PROHIBITORY APPLICABLE REQUIREMENTS	5
C. PERMIT SHIELDS	6
D. ADDITIONAL TERMS	6
E. TITLE IV PERMIT (ACID RAIN)	6
<b>SECTION III. EMISSION UNIT REQUIREMENTS</b>	<b>6</b>
A. DISTRICT PERMITTED EMISSION UNITS	6
B. REGISTERED AND LEASED EMISSION UNITS	7
C. INSIGNIFICANT EMISSION UNITS AND ACTIVITIES	7
<b>SECTION IV. VARIANCE PROCEDURES</b>	<b>7</b>
<b>SECTION V. APPENDICES</b>	<b>A-1</b>
A. DISTRICT PERMITS AND REGISTERED UNITS	A-1
B. RULE REFERENCE TABLE	B-1
C. ABBREVIATIONS	C-1

## **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
------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------

## **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 their date of creation. Such records shall be maintained on-site for a minimum of one year. Any additional records are maintained at a location to be specified by the source and made readily available to the District upon request. This requirement controls and supersedes any other record retention requirement under this permit as it pertains to, and is required by, District Rule 1421 and Title V of the Clean Air Act. [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 1401-J1 and Form 1401-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 1401-J1 and Form 1401-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. VI	101	Burning Control
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	52	Particulate Matter
SDCAPCD Reg. IV	53	Specific Contaminants
SDCAPCD Reg. X	40 CFR 60 Subpart A	NSPS General Provisions
SDCAPCD Reg. XI	40 CFR 63 Subpart A	NESHAP General Provisions
SDCAPCD Reg. XI	40 CFR 61 Subpart M	NESHAP - Asbestos
40 CFR Part 82	Subpart A	Production and Consumption Controls
40 CFR Part 82	Subpart B	Servicing of Motor Vehicle Air Conditioners
40 CFR Part 82	Subpart F	Recycling and Emissions Reduction

### C. PERMIT SHIELDS

The permittee is shielded from enforcement action for the following requirements as part of this permit in accordance with the provisions of District Rule 1410(p). For those shielded requirements that are subsumed by more stringent requirements, the permittee must comply with the more stringent requirement as given in this permit. For any shielded requirement

that is based on a regulatory exemption, the requirement shall only be shielded to the extent of the exemption.

Requirement & Reference	Basis of Shield
SDCAPCD Rule 53(d)(1)	Subsumed by natural gas sulfur requirement
SDCAPCD Rule 62	Subsumed by natural gas sulfur requirement
SDCAPCD Rule 68	Subsumed by standard of Rule 69.3
SDCAPCD Rule 69.3	Subsumed by NOx limit established under NSR
40 CFR 60 Subpart GG (NSPS, Stationary Gas Turbines)	Subsumed by more stringent District Rule Requirements

Nothing in this permit shield, or any other provisions under this permit pursuant to District Rule 1410(p), shall alter or affect the following:

1. The provisions of Section 303 of the federal Clean Air Act including the authority of the Administrator under that section,
2. The liability of a source for any violation of applicable requirements prior to or at the time of permit issuance,
3. The applicable requirements of the acid rain program consistent with Section 408 (a) of the federal Clean Air Act, and
4. The ability of EPA to obtain information from a source pursuant to Section 114 of the federal Clean Air Act.

**D. 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 comply with all applicable requirements, including but not limited to, those applicable requirements of 40 CFR Parts 60 and 63.

**E. 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 permittee shall install, operate, and maintain equipment for the determination of CO2 and NOx emissions on each applicable exhaust stack in accordance with 40 CFR Parts 72 and 75. [40 CFR Parts 72 and 75.10(a)]
3. 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 NOx 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]

4. The permittee shall monitor SO<sub>2</sub> emissions in accordance with 40 CFR Part 72 and 75. [40 CFR Parts 72 and 75]
5. 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]

### **SECTION III. EMISSION UNIT REQUIREMENTS**

#### **A. EMISSION UNITS**

Facility Emission Units (EU) are listed below and attached in Appendix A, including all terms and conditions of such permits, and comprise the emission unit portion of this Title V Operating Permit.

<b>EU Reference</b>	<b>Source</b>
APCD2009-PTO-976138	Turbine (1) – electric generation
APCD2009-PTO-976094	Turbine (2) – electric generation

#### **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. II	19.2	Continuous Emission Monitoring Requirements
SDCAPCD Reg. II	NSR	New Source Review
SDCAPCD Reg. IV	52	Particulate Matter
SDCAPCD Reg. IV	53	Specific Contaminants
SDCAPCD Reg. IV	54	Dust and Fumes
SDCAPCD Reg. IV	62	Sulfur Content of Fuels

#### **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. Larkspur and Wildflower Energy has listed stationary and portable engines with a horsepower rating of less than 50 BHP. These engines are exempt from District permitting requirements.

## **SECTION IV. DISTRICT-ONLY PROVISIONS**

### **VARIANCE PROCEDURES**

The permittee may seek relief from District enforcement action from 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 – SPECIFIC CONDITIONS**

<b>EU Reference</b>	<b>Source</b>
APCD2009-PTO-976138	Turbine 1 – Electric Generation
APCD2009-PTO-976094	Turbine 2 – Electric Generation



Sectors: 5, R  
Site ID: APCD2001-SITE-04109  
App ID: APCD2001-APP-976138

PERMIT ID  
APCD2009-PTO-976138  


Wildflower Energy LP/Larkspur  
O & M Manager  
333 Grand Ave S #1570  
Los Angeles CA, 90071

EQUIPMENT ADDRESS  
Larkspur Energy Facility  
O & M Manager  
9355 Otay Mesa Rd  
San Diego CA 92154

## 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

GAS TURBINE #200 (EAST): GENERAL ELECTRIC 45 MW NOMINALLY RATED MODEL LM 6000 PC SPRINT SIMPLE CYCLE GAS TURBINE WITH A HEAT INPUT RATING OF 395 MM BTU/HR (LHV) WHEN OPERATED ON NATURAL GAS AND 398 MM BTU/HR (LHV) WHEN OPERATED ON LIQUID FUEL, EQUIPPED WITH A WATER INJECTION SYSTEM AND CORMETECH SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM INCLUDING AUTOMATIC AMMONIA INJECTION CONTROL SYSTEM FOR CONTROL OF NOX, CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS), DATA ACQUISITION AND RECORDING SYSTEMS AND THE OPTION OF AN OXIDATION CATALYST SYSTEM: THE COMBINED TOTAL ELECTRICAL NOMINAL POWER OUTPUT FROM THE LARKSPUR POWER PLANT, INCLUDING THE POWER FROM UNIT 100 AND UNIT 200 IS 90 MW 976094 AND 976136 EAD 1/6/03 (982160 11/04)979094 AND 976136 EAD 4/20/05 (981537 04/20/05)983806 EAD 12/29/05

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 [20F] Non- Aircraft Turbine Engine  
1 [92I] Ammonia Source Test  
1 [92F] NOx and CO Source Test

BEC: APCD2012-CON-000550

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

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

1. The permittee shall comply with the following applicable requirements: 40 CFR Parts 60, 72 and 73. (Rule 1421)
2. Provided the equipment subject to this permit is operated in compliance with all of the Section (A) conditions listed below as they exist on the date of issuance of this permit, a permit shield is granted from enforcement action for the following applicable requirements: Rule 53, Rule 62, Rule 68, Rule 69.3, 40 CFR Part 60 Subpart GG, and 40 CFR Part 75. (Rule 1421)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

**Sectors:** 5, R  
**Site ID:** APCD2001-SITE-04109  
**App ID:** APCD2001-APP-976138

**PERMIT ID**  
APCD2009-PTO-976138



3. Any violation of any emission standard as indicated by the CEMS shall be reported to the District within 96 hours after such occurrence.(Rule 21)
4. When operating on natural gas, the unit shall be fired on Public Utility Commission (PUC) quality natural gas only. The permittee shall maintain on site quarterly records of the natural gas sulfur content (grains of sulfur compounds per 100 DSCF of natural gas) and the higher and lower heating values (BTU/SCF) of the natural gas and provide such records to District personnel upon request. (Rule 62)
5. Liquid fuel shall be used as fuel in the unit only during force majeure natural gas curtailments as defined in Rule 69 Section (C) Subsection (8) and to test the emergency back-up fuel system. Testing of the back-up fuel system for the unit shall be limited to 24 hours per calendar year. The total cumulative operation on liquid back up fuel during natural gas curtailment periods and for testing or emergencies for this unit shall not exceed 680 hours per calendar year. (Rule 20.3)
6. Except during startups, shutdowns and fuel changes, the water injection system and SCR and oxidation catalyst control system, including the automatic ammonia injection system serving the unit shall be in full operation at all times when the unit is in operation. (Rule 20.3)
7. The unit exhaust shall not bypass the emission control SCR system except for the first 10 minutes of a startup when operating on liquid fuel. The unit exhaust shall not bypass the CEMS at any time. (Rule 20.3 and Rule 69.3.1)
9. An application for modification of District permits for this equipment shall be required for any proposed physical or operational modification to the equipment described herein, such as a modification to convert this simple cycle turbine to combined cycle unit. Applicable BACT requirements for the proposed equipment modification shall be re-evaluated at that time. (Rule 10)
10. The NO<sub>x</sub>, CO and VOC limits defined in specified conditions of this permit shall not apply during the first continuous 30 minutes immediately following a startup or during the 30 continuous minutes immediately preceding a shutdown. Startup is defined as the time when fuel flow begins. Shutdown is defined as the moment fuel flow ceases. These events shall be recorded by the Data Acquisition System (DAS) as required by 40 CFR 75. (Rule 20.3, Rule 69.3.1, and 40 CFR Part 75)
11. Total combined oxides of nitrogen mass emissions from both units operating at this facility shall not equal or exceed 50 tons per calendar year. The daily NO<sub>x</sub> mass emissions from each unit shall be recorded daily. The aggregate NO<sub>x</sub> mass emissions from both units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded by the 15th calendar day of the following month. In the event that the 50 tons per calendar year emission limit is projected to be exceeded, the permittee shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. (Rule 20.3)
12. When operating on natural gas, emissions of oxides of nitrogen (NO<sub>x</sub>) calculated as nitrogen dioxide from the unit exhaust stack shall not exceed 9 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each clock hour and shall not exceed 5 ppmvd corrected to 15% oxygen and averaged over each continuous rolling 3-hour period. When operating on liquid fuel, emissions of oxides of nitrogen (NO<sub>x</sub>) calculated as nitrogen dioxide from the unit exhaust stack shall not exceed 13 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen averaged over each clock hour. Compliance with these limits shall be demonstrated continuously based upon CEMS data and based upon source testing calculated as the average of three subtests. These limits shall not apply during startup and shutdown periods. (Rule 20.3, 69.3 and 69.3.1)
13. When operating on natural gas, the NO<sub>x</sub> mass emission rate from the unit shall not exceed 8.4 pounds per hour of nitrogen oxides (NO<sub>x</sub>) calculated as nitrogen dioxide averaged over each continuous rolling three hour period. When operating on liquid fuel, the NO<sub>x</sub> mass emission rate from the unit shall not exceed 22.6 pounds per hour of nitrogen oxides (NO<sub>x</sub>) calculated as nitrogen dioxide and averaged over each clock hour. Compliance with these limits shall be demonstrated continuously based upon CEMS data and based upon source testing calculated as an average of three subtests. (Rule 20.3)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

**Sectors:** 5, R  
**Site ID:** APCD2001-SITE-04109  
**App ID:** APCD2001-APP-976138

**PERMIT ID**  
APCD2009-PTO-976138



14. Total combined carbon monoxide (CO) emissions from both units shall not equal or exceed the prevention of significant deterioration (PSD) threshold of 250 tons per calendar year. The daily CO mass emissions from each unit shall be recorded daily. The aggregate CO mass emissions from both units for each calendar month and for each rolling 12-month period shall be calculated and recorded monthly by the 15th calendar day of the following month. In the event that an annual PSD stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. (Rule 20.3)
15. Emissions of carbon monoxide (CO) from the unit exhaust stack shall not exceed 70 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each clock hour. Compliance with this limit shall be demonstrated continuously based on CEMS data and by source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown periods. (Rule 20.3)
16. Emissions of Volatile Organic Compounds (VOC) calculated as methane from the unit exhaust stack shall not exceed 2 parts per million on a dry basis (ppmvd) corrected to 15% oxygen. Compliance with this limit shall be demonstrated by source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown periods. (Rule 20.3)
18. The discharge of particulate matter from the exhaust stack of the unit shall not exceed 0.10 grains per dry standard cubic foot (0.23 grams/DSCM). The District may require periodic testing when operating on liquid fuel to verify compliance with this standard. (Rule 53)
19. Visible emissions from the lube oil vents and the exhaust stack of the unit shall not exceed 20% opacity for more than three (3) minutes in any period of 60 consecutive minutes. (Rule 50)
20. Only CARB certified California diesel fuel or an alternative liquid fuel that has been approved in writing by the District with a sulfur content equal to or less than 0.05% by weight may be used as a backup fuel for these turbines. (Rule 20.3)
21. An operating log or Data Acquisition System (DAS) records shall be maintained on site to record actual times and durations of all:
  - startups
  - shutdowns
  - quantity of each fuel used
  - hours of daily operation
  - total cumulative hours of operation during each calendar year (Rule 20.3)
22. A Continuous Emission Monitoring System (CEMS) shall be installed and calibrated to measure and record the:
  - hourly average concentration and hourly mass emission rate of oxides of nitrogen (NOx)
  - the hourly average concentration and daily mass emission rate of carbon monoxide (CO)
  - the percent oxygen (O2) in the exhaust gasThe CEMS shall thereafter be in full operation at all times when the unit is in operation. (Rule 20.3 and Rule 69.3.1)
23. The CEMS shall be maintained and operated, and reports submitted, in accordance with the requirements of Rule 19.2 Sections (D), (E), (F)(1)(I), (F)(2), (F)(3), (F)(4) and (F)(5). (Rule 19.2)
24. All NOx and O2 CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of Sections 75.10 and 75.12 of Title 40, Code of Federal Regulations Part 75 (40 CFR 75), the performance specifications of Appendix A of 40 CFR 75, the quality assurance procedures of Appendix B of 40 CFR 75 and a CEMS Protocol approved by the District. (Rule 69.3.1 and 40 CFR Part 75)
25. When the CEM System is not recording data and the unit is operating, hourly NOx emissions for the annual emission calculations shall be determined in accordance with 40 CFR 75 Subpart C. Additionally, hourly CO emissions for the annual emission calculations shall be determined using the hourly emission rates recorded by the CEMS during the most recent hours in which the unit operated 3 continuous hours at no less than 80% of full power rating. Alternatively, hourly emission rates to be used shall be CO emission factor to be determined from compliance source test emissions and fuel consumption data in terms of pounds per hour of CO for the gas turbine. Emission calculations used to determine alternate hourly emission rates shall be reviewed and approved by the District in writing before the alternate hourly emissions rates are incorporated with CEMS emission data. (Rule 20.3)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

**Sectors:** 5, R  
**Site ID:** APCD2001-SITE-04109  
**App ID:** APCD2001-APP-976138

**PERMIT ID**  
**APCD2009-PTO-976138**



26. All CO CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of 40 CFR 60 Appendix B & F and a CEMS protocol approved by the District. (Rule 69.3.1)
27. The District shall be notified in writing at least two (2) weeks prior to any changes made in the CEMS software that affect the measurement, calculation or correction of data displayed and/or recorded by the CEMS. (Rule 69.3.1 and 40 CFR Part 75)
28. The unit shall be equipped with continuous parametric monitors to measure, calculate and to record the following operational characteristics:
  - hours of operation (hours)
  - natural gas flow rate (SCFH)
  - liquid fuel flow rate (gal./hr.)
  - exhaust gas temperature (° F)
  - ammonia injection rate (gal./hr.)
  - water injection rate (gal./hr.)
  - ratio of water injection rate to fuel consumption rate (lbs. of water to lbs. of fuel)
  - ratio of ammonia injection rate to outlet NOx mass emission rate (lbs. of ammonia to lbs. of NOx)
  - inlet temperature of the SCR and oxidation catalyst beds (° F)
  - power output (MW)These monitors shall be installed, calibrated and maintained in accordance with the manufacturer's recommended procedures and a protocol approved by the District. Rules (20.3 and 69.3.1)
29. Non-resettable totalizing meters with an accuracy of at least +/-2% shall be installed in each natural gas fuel line to measure volumetric flow rate corrected for temperature and pressure of natural gas. Non-resettable totalizing meters with an accuracy of at least +/-2% shall be installed in each liquid fuel line to measure volumetric flow rate of liquid fuel. Fuel flow meters shall meet the applicable quality assurance requirements of 40 CFR part 75, Appendix D, Section 2.1.6. (Rule 69.3.1 and 40 CFR Part 75)
30. Monthly and annual records of fuel usage shall be maintained and made available to the District upon request. These records shall indicate actual times and duration of all:
  - startups
  - shutdowns
  - fuel changes
  - quantity of fuel used
  - the purpose of fuel switches. (Rule 20.3)
31. Water injection (for NOx control), and ammonia flow meters shall be installed and maintained to measure the flow rate. Flow meters shall be calibrated and maintained to be accurate to at least +/-2%. Flow rates, calibration reports, correction factors, and constants for the previous five years shall be maintained on site or at a District-approved alternate location and made available to the District within 48 hours after request. (Rule 20.3 and Rule 69.3.1)
32. Access and facilities for fuel samples from fuel tanks or fuel lines shall be provided to District personnel for obtaining samples for analysis. Records of fuel specifications including the Safety Data Sheets (SDS) and the sulfur content guarantee shall be made readily available to the District upon request. (Rule 62)
33. The exhaust stack of the unit shall be equipped with source test ports and a platform to allow for the measurement and collection of stack gas samples consistent with all approved test protocols. The ports and the platform shall be constructed in accordance with San Diego APCD Method 3A Appendix Figure 2 and approved by the District. (Rule 19)
34. A Relative Accuracy Test Audit (RATA) and all other required certification tests shall be performed and completed on the CEMS in accordance with 40 CFR Part 75 Appendix A and B (Performance Specifications). At least 21 days prior to the test date, the permittee shall submit test protocol to the District for approval. Additionally, the District shall be notified a minimum of 21 days prior to the test so that observers may be present. (40 CFR Part 75)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

**Sectors:** 5, R  
**Site ID:** APCD2001-SITE-04109  
**App ID:** APCD2001-APP-976138

**PERMIT ID**  
**APCD2009-PTO-976138**  


35. The Source Test Protocol required to be submitted to the District 45 days prior to renewal source tests shall comply with the following requirements:
  - a. Measurements of outlet oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and stack gas oxygen content (O<sub>2</sub>%) shall be conducted in accordance with the District Source Test Method 100, or the Air Resources Board (ARB) Test Method 100 as approved by the U.S. EPA.
  - b. Measurements of outlet Volatile Organic Compound (VOC) emissions shall be conducted in accordance with the San Diego APCD Methods 25A and/or 18.
  - c. Measurements of outlet ammonia shall be conducted in accordance with BAAQMD Test Method ST-1B.
  - d. When operating on liquid fuel, measurements of outlet particulate matter emissions shall be conducted in accordance with the San Diego APCD Method 5.
  - e. Source testing shall be performed at no less than 80% of the unit rated load. (Rule 20.3 and Rule 69.3.1)
36. Within 30 days after completion of the renewal source test or RATA, a final test report shall be submitted to the District for review and approval. (NSR, Rule 1200)
37. This unit shall be source tested to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, and ammonia emission standards of this permit, using District approved methods. The source test and the NO<sub>x</sub> and CO RATA tests shall be conducted in accordance with the RATA frequency requirements of 40 CFR 75 Appendix B, Sections 2.3.1 and 2.3.3. 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.(NSR, Rule 1200)
38. This equipment shall be source tested during oil fired operations at least once per permit year, before the permit to operate renewal date or at least once every 300 hours of liquid fuel operation, whichever is less frequent, to demonstrate compliance with the outlet NO<sub>x</sub>, CO, VOC, and ammonia emission standards of this permit using District approved methods unless otherwise directed in writing by the District. (Rule 20.3 & Rule 69.3.1)
39. 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**

8. In the event of a breakdown in an automatic ammonia injection control system, a trained operator shall operate the system manually and the breakdown shall be reported to the District Compliance Division pursuant to Rule 98. (Rule 98)
17. Ammonia emissions shall not exceed 10 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen. Compliance with this limit shall be demonstrated by source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown periods. (Rule 1200)
40. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
41. 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.)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
 10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
 PHONE (858) 586-2600 FAX (858) 586-2601  
 www.sdapcd.org

**Sectors:** 5, R  
**Site ID:** APCD2001-SITE-04109  
**App ID:** APCD2001-APP-976094

**PERMIT ID**  
 APCD2009-PTO-976094

Wildflower Energy LP/Larkspur  
 O & M Manager  
 633 West Fifth Street  
 Suite 1000  
 Los Angeles CA, 90071

**EQUIPMENT ADDRESS**  
 Larkspur Energy Facility  
 O & M Manager  
 9355 Otay Mesa Rd  
 San Diego CA 92154

## 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

GAS TURBINE #100 (WEST): GENERAL ELECTRIC 45 MW NOMINALLY RATED MODEL LM 6000 PC SPRINT SIMPLE CYCLE GAS TURBINE WITH A HEAT INPUT RATING OF 395 MM BTU/HR (LHV) WHEN OPERATED ON NATURAL GAS AND 398 MM BTU/HR (LHV) WHEN OPERATED ON LIQUID FUEL, EQUIPPED WITH A WATER INJECTION SYSTEM AND CORMETECH SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM INCLUDING AUTOMATIC AMMONIA INJECTION CONTROL SYSTEM FOR CONTROL OF NOX, CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS), DATA ACQUISITION AND RECORDING SYSTEMS AND THE OPTION OF AN OXIDATION CATALYST SYSTEM; THE COMBINED TOTAL ELECTRICAL NOMINAL POWER OUTPUT FROM THE LARKSPUR POWER PLANT, INCLUDES POWER FROM UNIT 100 AND UNIT 200 IS 90 MW. 976094 EAD 01/06/03 (982160 11/04) 976138 AND 976094 04/20/05 (981537 04/05) 983806 12/29/05 EAD (985992 ALC 01/09)

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 [92F] NOx and CO Source Test  
 1 [92I] Ammonia Source Test  
 1 [20F] Non- Aircraft Turbine Engine

BEC: APCD2012-CON-000550

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

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

1. The permittee shall comply with the following applicable requirements: 40 CFR Parts 60, 72 and 73. (Rule 1421)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

**Sectors:** 5, R  
**Site ID:** APCD2001-SITE-04109  
**App ID:** APCD2001-APP-976094

**PERMIT ID**  
APCD2009-PTO-976094



2. Provided the equipment subject to this permit is operated in compliance with all of the Section (A) conditions listed below as they exist on the date of issuance of this permit, a permit shield is granted from enforcement action for the following applicable requirements: Rule 53, Rule 62, Rule 68, Rule 69.3, 40 CFR Part 60 Subpart GG, and 40 CFR Part 75. (Rule 1421)
3. Any violation of any emission standard as indicated by the CEMS shall be reported to the District within 96 hours after such occurrence.(Rule 21)
4. When operating on natural gas, the unit shall be fired on Public Utility Commission (PUC) quality natural gas only. The permittee shall maintain on site quarterly records of the natural gas sulfur content (grains of sulfur compounds per 100 DSCF of natural gas) and the higher and lower heating values (BTU/SCF) of the natural gas and provide such records to District personnel upon request. (Rule 62)
5. Liquid fuel shall be used as fuel in the unit only during force majeure natural gas curtailments as defined in Rule 69 Section (C) Subsection (8) and to test the emergency back-up fuel system. Testing of the back-up fuel system for the unit shall be limited to 24 hours per calendar year. The total cumulative operation on liquid back up fuel during natural gas curtailment periods and for testing or emergencies for this unit shall not exceed 680 hours per calendar year. (Rule 20.3)
6. Except during startups, shutdowns and fuel changes, the water injection system and SCR and oxidation catalyst control system, including the automatic ammonia injection system serving the unit shall be in full operation at all times when the unit is in operation. (Rule 20.3)
7. The unit exhaust shall not bypass the emission control SCR system except for the first 10 minutes of a startup when operating on liquid fuel. The unit exhaust shall not bypass the CEMS at any time. (Rule 20.3 and Rule 69.3.1)
9. An application for modification of District permits for this equipment shall be required for any proposed physical or operational modification to the equipment described herein, such as a modification to convert this simple cycle turbine to combined cycle unit. Applicable BACT requirements for the proposed equipment modification shall be re-evaluated at that time. (Rule 10)
10. The NO<sub>x</sub>, CO and VOC limits defined in specified conditions of this permit shall not apply during the first continuous 30 minutes immediately following a startup or during the 30 continuous minutes immediately preceding a shutdown. Startup is defined as the time when fuel flow begins. Shutdown is defined as the moment fuel flow ceases. These events shall be recorded by the Data Acquisition System (DAS) as required by 40 CFR 75. (Rule 20.3, Rule 69.3.1, and 40 CFR Part 75)
11. Total combined oxides of nitrogen mass emissions from both units operating at this facility shall not equal or exceed 50 tons per calendar year. The daily NO<sub>x</sub> mass emissions from each unit shall be recorded daily. The aggregate NO<sub>x</sub> mass emissions from both units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded by the 15th calendar day of the following month. In the event that the 50 tons per calendar year emission limit is projected to be exceeded, the permittee shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. (Rule 20.3)
12. When operating on natural gas, emissions of oxides of nitrogen (NO<sub>x</sub>) calculated as nitrogen dioxide from the unit exhaust stack shall not exceed 9 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each clock hour and shall not exceed 5 ppmvd corrected to 15% oxygen and averaged over each continuous rolling 3-hour period. When operating on liquid fuel, emissions of oxides of nitrogen (NO<sub>x</sub>) calculated as nitrogen dioxide from the unit exhaust stack shall not exceed 13 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen averaged over each clock hour. Compliance with these limits shall be demonstrated continuously based upon CEMS data and based upon source testing calculated as the average of three subtests. These limits shall not apply during startup and shutdown periods. (Rule 20.3, 69.3 and 69.3.1)
13. When operating on natural gas, the NO<sub>x</sub> mass emission rate from the unit shall not exceed 8.4 pounds per hour of nitrogen oxides (NO<sub>x</sub>) calculated as nitrogen dioxide averaged over each continuous rolling three hour period. When operating on liquid fuel, the NO<sub>x</sub> mass emission rate from the unit shall not exceed 22.6 pounds per hour of nitrogen oxides (NO<sub>x</sub>) calculated as nitrogen dioxide and averaged over each clock hour. Compliance with these limits shall be demonstrated continuously based upon CEMS data and based upon source testing calculated as an average of three subtests. (Rule 20.3)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

Sectors: 5, R  
Site ID: APCD2001-SITE-04109  
App ID: APCD2001-APP-976094

**PERMIT ID**  
**APCD2009-PTO-976094**



14. Total combined carbon monoxide (CO) emissions from both units shall not equal or exceed the prevention of significant deterioration (PSD) threshold of 250 tons per calendar year. The daily CO mass emissions from each unit shall be recorded daily. The aggregate CO mass emissions from both units for each calendar month and for each rolling 12-month period shall be calculated and recorded monthly by the 15th calendar day of the following month. In the event that an annual PSD stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. (Rule 20.3)
15. Emissions of carbon monoxide (CO) from the unit exhaust stack shall not exceed 70 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each clock hour. Compliance with this limit shall be demonstrated continuously based on CEMS data and by source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown periods. (Rule 20.3)
16. Emissions of Volatile Organic Compounds (VOC) calculated as methane from the unit exhaust stack shall not exceed 2 parts per million on a dry basis (ppmvd) corrected to 15% oxygen. Compliance with this limit shall be demonstrated by source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown periods. (Rule 20.3)
18. The discharge of particulate matter from the exhaust stack of the unit shall not exceed 0.10 grains per dry standard cubic foot (0.23 grams/DSCM). The District may require periodic testing when operating on liquid fuel to verify compliance with this standard. (Rule 53)
19. Visible emissions from the lube oil vents and the exhaust stack of the unit shall not exceed 20% opacity for more than three (3) minutes in any period of 60 consecutive minutes. (Rule 50)
20. Only CARB certified California diesel fuel or an alternative liquid fuel that has been approved in writing by the District with a sulfur content equal to or less than 0.05% by weight may be used as a backup fuel for these turbines. (Rule 20.3)
21. An operating log or Data Acquisition System (DAS) records shall be maintained on site to record actual times and durations of all:
  - startups
  - shutdowns
  - quantity of each fuel used
  - hours of daily operation
  - total cumulative hours of operation during each calendar year (Rule 20.3)
22. A Continuous Emission Monitoring System (CEMS) shall be installed and calibrated to measure and record the:
  - hourly average concentration and hourly mass emission rate of oxides of nitrogen (NOx)
  - the hourly average concentration and daily mass emission rate of carbon monoxide (CO)
  - the percent oxygen (O2) in the exhaust gasThe CEMS shall thereafter be in full operation at all times when the unit is in operation. (Rule 20.3 and Rule 69.3.1)
23. The CEMS shall be maintained and operated, and reports submitted, in accordance with the requirements of Rule 19.2 Sections (D), (E), (F)(1)(I), (F)(2), (F)(3), (F)(4) and (F)(5). (Rule 19.2)
24. All NOx and O2 CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of Sections 75.10 and 75.12 of Title 40, Code of Federal Regulations Part 75 (40 CFR 75), the performance specifications of Appendix A of 40 CFR 75, the quality assurance procedures of Appendix B of 40 CFR 75 and a CEMS Protocol approved by the District. (Rule 69.3.1 and 40 CFR Part 75)
25. When the CEMS is not recording data and the unit is operating, hourly NOx emissions for the annual emission calculations shall be determined in accordance with 40 CFR 75 Subpart C. Additionally, hourly CO emissions for the annual emission calculations shall be determined using the hourly emission rates recorded by the CEMS during the most recent hours in which the unit operated 3 continuous hours at no less than 80% of full power rating. Alternatively, hourly emission rates to be used shall be CO emission factor to be determined from compliance source test emissions and fuel consumption data in terms of pounds per hour of CO for the gas turbine. Emission calculations used to determine alternate hourly emission rates shall be reviewed and approved by the District in writing before the alternate hourly emissions rates are incorporated with CEMS emission data. (Rule 20.3)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

Sectors: 5, R  
Site ID: APCD2001-SITE-04109  
App ID: APCD2001-APP-976094

**PERMIT ID**  
APCD2009-PTO-976094



26. All CO CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of 40 CFR 60 Appendix B & F and a CEMS protocol approved by the District. (Rule 69.3.1)
27. The District shall be notified in writing at least two (2) weeks prior to any changes made in the CEMS software that affect the measurement, calculation or correction of data displayed and/or recorded by the CEMS. (Rule 69.3.1 and 40 CFR Part 75)
28. The unit shall be equipped with continuous parametric monitors to measure, calculate and to record the following operational characteristics:
  - hours of operation (hours)
  - natural gas flow rate (SCFH)
  - liquid fuel flow rate (gal./hr.)
  - exhaust gas temperature (° F)
  - ammonia injection rate (gal./hr.)
  - water injection rate (gal./hr.)
  - ratio of water injection rate to fuel consumption rate (lbs. of water to lbs. of fuel)
  - ratio of ammonia injection rate to outlet NOx mass emission rate (lbs. of ammonia to lbs. of NOx)
  - inlet temperature of the SCR and oxidation catalyst beds (° F)
  - power output (MW)These monitors shall be installed, calibrated and maintained in accordance with the manufacturer's recommended procedures and a protocol approved by the District. Rules (20.3 and 69.3.1)
29. Non-resettable totalizing meters with an accuracy of at least +/-2% shall be installed in each natural gas fuel line to measure volumetric flow rate corrected for temperature and pressure of natural gas. Non-resettable totalizing meters with an accuracy of at least +/-2% shall be installed in each liquid fuel line to measure volumetric flow rate of liquid fuel. Fuel flow meters shall meet the applicable quality assurance requirements of 40 CFR part 75, Appendix D, Section 2.1.6. (Rule 69.3.1 and 40 CFR Part 75)
30. Monthly and annual records of fuel usage shall be maintained and made available to the District upon request. These records shall indicate actual times and duration of all:
  - startups
  - shutdowns
  - fuel changes
  - quantity of fuel used
  - the purpose of fuel switches. (Rule 20.3)
31. Water injection (for NOx control), and ammonia flow meters shall be installed and maintained to measure the flow rate. Flow meters shall be calibrated and maintained to be accurate to at least +/-2%. Flow rates, calibration reports, correction factors, and constants for the previous five years shall be maintained on site or at a District-approved alternate location and made available to the District within 48 hours after request. (Rule 20.3 and Rule 69.3.1)
32. Access and facilities for fuel samples from fuel tanks or fuel lines shall be provided to District personnel for obtaining samples for analysis. Records of fuel specifications including the Safety Data Sheets (SDS) and the sulfur content guarantee shall be made readily available to the District upon request. (Rule 62)
33. The exhaust stack of the unit shall be equipped with source test ports and a platform to allow for the measurement and collection of stack gas samples consistent with all approved test protocols. The ports and the platform shall be constructed in accordance with San Diego APCD Method 3A Appendix Figure 2 and approved by the District. (Rule 19)
34. A Relative Accuracy Test Audit (RATA) and all other required certification tests shall be performed and completed on the CEMS in accordance with 40 CFR Part 75 Appendix A and B (Performance Specifications). At least 21 days prior to the test date, the permittee shall submit test protocol to the District for approval. Additionally, the District shall be notified a minimum of 21 days prior to the test so that observers may be present. (40 CFR Part 75)



**COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT**  
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131  
PHONE (858) 586-2600 FAX (858) 586-2601  
www.sdapcd.org

**Sectors:** 5, R  
**Site ID:** APCD2001-SITE-04109  
**App ID:** APCD2001-APP-976094

**PERMIT ID**  
APCD2009-PTO-976094  


- 35. The Source Test Protocol required to be submitted to the District 45 days prior to renewal source tests shall comply with the following requirements:
  - a. Measurements of outlet oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and stack gas oxygen content (O<sub>2</sub>%) shall be conducted in accordance with the District Source Test Method 100, or the Air Resources Board (ARB) Test Method 100 as approved by the U.S. EPA.
  - b. Measurements of outlet Volatile Organic Compound (VOC) emissions shall be conducted in accordance with the San Diego APCD Methods 25A and/or 18.
  - c. Measurements of outlet ammonia shall be conducted in accordance with BAAQMD Test Method ST-1B.
  - d. When operating on liquid fuel, measurements of outlet particulate matter emissions shall be conducted in accordance with the San Diego APCD Method 5.
  - e. Source testing shall be performed at no less than 80% of the unit rated load. (Rule 20.3 and Rule 69.3.1)
- 36. Within 30 days after completion of the renewal source test or RATA, a final test report shall be submitted to the District for review and approval. (NSR, Rule 1200)
- 37. This unit shall be source tested to demonstrate compliance with the NO<sub>x</sub>, CO, VOC, and ammonia emission standards of this permit, using District approved methods. The source test and the NO<sub>x</sub> and CO RATA tests shall be conducted in accordance with the RATA frequency requirements of 40 CFR 75 Appendix B, Sections 2.3.1 and 2.3.3. 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.(NSR, Rule 1200)
- 38. This equipment shall be source tested during oil fired operations at least once per permit year, before the permit to operate renewal date or at least once every 300 hours of liquid fuel operation, whichever is less frequent, to demonstrate compliance with the outlet NO<sub>x</sub>, CO, VOC, and ammonia emission standards of this permit using District approved methods unless otherwise directed in writing by the District. (Rule 20.3 & Rule 69.3.1)
- 39. 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**

- 8. In the event of a breakdown in an automatic ammonia injection control system, a trained operator shall operate the system manually and the breakdown shall be reported to the District Compliance Division pursuant to Rule 98. (Rule 98)
- 17. Ammonia emissions shall not exceed 10 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen. Compliance with this limit shall be demonstrated by source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown periods. (Rule 1200)
- 40. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
- 41. 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 <sup>†</sup>	05/11/77
176	Information Supplied to District	F	05/22/74 <sup>†</sup>	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

<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.

Subpart & Citation	RULE TITLE	District Adoption Date	Federal Delegation Date
<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.

<b>Subpart &amp; Citation</b>	<b>RULE TITLE</b>	<b>A/R</b>	<b>Most Recent Adoption Date</b>
<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>			
<b>Part 63</b>			
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