
San Diego County Air Pollution Control District

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

**TITLE V OPERATING PERMIT
APCD2013-TVP-00037**

Issued To:

Orange Grove Energy, L.P.
Site ID # APCD2007-SITE-06289

Site Address

35435 Pala del Norte Road
Pala, CA. 92059

Mailing Address

35435 Pala del Norte Road
Pala, CA. 92059

Responsible Official – Paul Peterson (847) 908-2800

Facility Contact – John Hutson (760) 615-2011

Permit Information Contact – Ramiro Garcia (760) 936-1617

Issued by the San Diego County Air Pollution Control District on Date

This Title V Operating Permit expires on Date.

Signed by: _____ Date: _____
Robert C. Reider, Air Pollution Control Officer

TABLE OF CONTENTS

	PAGE
PREAMBLE	1
SECTION I. REGULATION XIV PERMIT REQUIREMENTS	2
A. ADMINISTRATIVE PERMIT TERMS	2
B. RENEWAL REQUIREMENTS AND TERMS	2
C. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS	3
D. GENERAL PERMIT REQUIREMENTS	4
SECTION II. FACILITY-WIDE REQUIREMENTS	5
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
SECTION III. EMISSION UNIT REQUIREMENTS	6
A. DISTRICT PERMITTED EMISSION UNITS	6
D. REGISTERED AND LEASED EMISSION UNITS	7
E. INSIGNIFICANT EMISSION UNITS AND ACTIVITIES	7
SECTION IV. VARIANCE PROCEDURES	7
SECTION V. APPENDICES	A-1
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

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. [62 Federal Register 8314; 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 years from their date of creation. Such records shall be maintained on-site for a minimum of three years. [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 enforcement action; 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 permittee shall only make changes to its operations as allow by this permit and that comply with the requirements for permit amendments, modifications and other changes as given in Rules 1410 and 10. [Rules 1410(i) through (o) and (q); Rule 10]
7. 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	20.2	New Source Review
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

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. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. X	40 CFR 60 Subpart A	NSPS General Provisions
SDCAPCD Reg. XI	40 CFR 63 Subpart A	NESHAP General Provisions
40 CFR Part 82	Subpart A	Production and Consumption Controls
40 CFR Part 82	Subpart F	Recycling and Emissions Reduction
SDAPCD Reg. XII	1200*	Toxic Air Contaminants – New Source Review
California Code of Regulations (CCR) Title 17	93115.1*	Stationary Diesel Airborne Toxic Control Measure (ATCM)

*Not federally enforceable

C. PERMIT SHIELDS

1. No permit shield applies.

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. Records required by this permit shall be considered as being maintained "on-site" if records for the previous 12-month period are available at the stationary source and any additional records are maintained at a location to be specified by the source and made readily available to the District upon request. [Rule 21]
3. 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 monitoring CO₂ and NO_x on each applicable exhaust stack in accordance with 40 CFR Parts 72 and 75. [40 CFR Parts 72 and 75]
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 NO_x 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 SO₂ 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. DISTRICT PERMITTED EMISSION UNITS

The District Permits listed below and attached in Appendix A, including all terms and conditions of such permits, constitute the emission unit portion of this Title V Operating Permit document.

Permit Number	Source Category
APCD2011-PTO-000889	Gas Turbine Engine Generator (Unit #1)
APCD2011-PTO-000890	Gas Turbine Engine Generator (Unit #2)
APCD2011-PTO-000891	Emergency Diesel Engine for Fire Pump
APCD2011-PTO-000892	Emergency Natural Gas Engine (Black Start for plant)

D. 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.

Regulation	Rule Citation	Title
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

E. INSIGNIFICANT EMISSION UNITS AND ACTIVITIES

The permittee shall comply with the source specific applicable requirements in the District Rules and Regulations for any Insignificant Units located at this facility that are listed at District Regulation XIV, Appendix-A, for which a permit is not required (no insignificant units were listed in the permittee's application).

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: DISTRICT PERMITS

Permit Number	Source Category
APCD2011-PTO-000889	Gas Turbine Engine Generator (Unit #1)
APCD2011-PTO-000890	Gas Turbine Engine Generator (Unit #2)
APCD2011-PTO-000891	Emergency Diesel Engine for Fire Pump
APCD2011-PTO-000892	Emergency Natural Gas Engine (Black Start)

DRAFT



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889

Orange Grove Energy LP
 Ramiro Garca
 35435 East Pala Del Norte Rd
 Pala CA, 92059

EQUIPMENT ADDRESS
 Orange Grove Energy LP
 Ramiro Garcia
 35435 East Pala Del Norte Rd
 Pala CA 92059

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

J-Power USA Development Co. LTD Paul Peterson 35435 East Pala Del Norte Rd, Pala, CA 92059

EQUIPMENT DESCRIPTION

One natural gas simple cycle combustion turbine generator: Make General Electric, Model LM6000 PC SPRINT, nominal output 49.8 MW, with water injection, a selective catalytic reduction (SCR) unit with ammonia injection control system, an oxidation catalyst, data acquisition system (DAHS) and continuous emission monitoring system (CEMS).
 (APCD2008-APP-985708/CCN/Sept 2011)

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 [93A] Test Witness and Report Review (T&M)
 1 [20F] Non- Aircraft Turbine Engine

BEC: APCD2011-CON-000320

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. The Emission unit shall be fired on Public Utility Commission (PUC) quality natural gas only. The permittee shall maintain quarterly records of sulfur content (grains/100 dscf) and higher heating value (Btu/dscf) of the natural gas and provide such records to the District personnel upon request. [Rule 62 and/or 40 CFR 60 Subpart KKKK]
2. This equipment shall be properly maintained and kept in good operating condition at all times. (NSR and Rule 21)
3. The permittee shall operate the project in accordance with all data and specifications submitted with the application. (Rule 10)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889

4. For the purposes of this Permit to Operate, startup conditions shall be defined as the period of time that begins when fuel flows to the turbine and shall continue for no longer than 30 consecutive minutes. Shutdown conditions shall be defined as the 15 minute period preceding the moment at which fuel flow ceases. The Data Acquisition and Handling System (DAHS), as required by 40 CFR75, shall record these events. This condition may be modified by the District based on field performance of the equipment. (NSR)
5. 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)
6. The permittee shall obtain any necessary District permits for all ancillary combustion equipment including emergency engines, prior to on-site delivery of the equipment. (Rule 10)
7. The exhaust stacks for the combustion turbines shall be at least 80 feet in height above site base elevation. (NSR)
8. The permittee shall comply with all the applicable provisions of 40 CFR 73, including requirements to offset, hold and retire SO2 allowances. (40 CFR Part 73)
9. The total combined operating hours for the combustion turbines of Permit No. APCD2011-PTO-000889 and APCD2011-PTO-000890 shall not exceed 6,400 hours per calendar year. (NSR)
10. The permittee shall comply with the applicable requirements in 40 CFR Parts 60, 72, 73, and 75. (Rules 1412 and 1421)
11. For purposes of determining compliance based on source testing, the average of three subtests shall be used. For purposes of determining compliance with emission limits based on the CEMS, data collected in accordance with the CEMS protocol shall be used and averaging periods shall be as specified herein. (Rule 69.3.1; Rule 21)
12. For the purposes of this Permit to Operate, startup conditions shall be defined as the period of time that begins when fuel flows to the turbine and shall continue for no longer than 30 consecutive minutes. Shutdown conditions shall be defined as the 15 minute period preceding the moment at which fuel flow ceases. The Data Acquisition and Recording System (DAS), as required by 40 CFR75, shall record these events. This condition may be modified by the District based on field performance of the equipment. (NSR)
13. For each emission limit expressed as pounds per hour or parts per million based on a clock-hour averaging period, compliance shall be based on continuous emission data collected at least once every 15 minutes. (40 CFR Part 75; Rule 21)
14. During startup conditions, the emissions from each unit exhaust stack shall not exceed the following emission limits as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing. Compliance with each limit shall be based on the startup period.
Pollutant Limit, lbs/event
Oxides of Nitrogen (NOx), calculated as NO2 13.25
Carbon Monoxide (CO) 12.05
Volatile Organic Compounds (VOC) 1.95
(NSR)
15. Emissions of nitrogen oxides from each unit exhaust stack shall not exceed 25 parts per million by volume, dry basis (ppmvd) at 15 percent O2 or 150 ng/J of useful output (1.2 lb/MWh) (4 hour average pursuant to 40 CFR § 60.4380(b)). This limit applies at all times including periods of startup and shutdown. [40 CFR 60 Subpart KKKK, Appendix Table 1]
16. Excess emissions shall be as defined in 40 CFR Subpart KKKK § 60.4380. An excess emission is any unit operating period, including periods of startup and shutdown, in which the 4-hour or 30-day rolling average NOx emission rate exceeds the applicable emission limit in 40 CFR 60 Subpart KKKK, Appendix Table 1.
17. For each affected unit required to continuously monitor parameters or emissions the permittee must submit to the District reports of excess emissions and monitor downtime, in accordance with 40 CFR 60 Subpart KKKK 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction. Reports submitted pursuant to this requirement shall be postmarked no later than the 30th day following the end of the 6-month reporting period. 6-month reporting periods comprise January 1 through June 30, and July 1 through December 31. [40 CFR Subpart KKKK 60.4375(a)]



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889


18. During shutdown conditions, the emissions from each unit exhaust stack shall not exceed the following emission limits as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing. Compliance with each limit shall be based on the shutdown period
- | Pollutant | Limit, lbs/event |
|--|------------------|
| Oxides of Nitrogen (NO _x), calculated as NO ₂ | 2.68 |
| Carbon Monoxide (CO) | 4.43 |
| Volatile Organic Compounds (VOC) (NSR) | 0.73 |
19. The emissions concentration of oxides of nitrogen (NO_x) from the unit exhaust stack, calculated as nitrogen dioxide (NO₂), shall not exceed 2.5 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over a clock hour period. Compliance with this limit shall be demonstrated continuously based on the CEMs data and based on source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions as defined herein. (NSR)
20. The emissions concentration of carbon monoxide (CO) from the unit exhaust stack shall not exceed 6.0 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over a clock-hour period. Compliance with this limit shall be demonstrated continuously based on the CEMs data and based upon source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions as defined herein. (NSR)
21. The volatile organic compounds (VOC) emission concentration from the unit exhaust stack, calculated as methane, measured in the exhaust stack, shall not exceed 2.0 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each clock-hour period. Compliance with this limit shall be demonstrated continuously based on the CEMs data and based on source testing calculated as the average of three subtests. At the time of the initial compliance test, a District-approved CO/VOC surrogate relationship shall be established. The CO/VOC surrogate relationship shall be verified and/or modified, if necessary, based on annual source testing. This limit shall not apply during startup and shutdown conditions as defined herein. (NSR)
22. The emissions from each unit exhaust stack shall not exceed the following emission limits, except during startup and shutdown conditions, as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing, calculated as the average of three subtests. Compliance with each limit shall be based on a clock-hour averaging period.
- | Pollutant | Limit, lbs/hour |
|--|-----------------|
| Oxides of Nitrogen (NO _x), calculated as NO ₂ | 4.3 |
| Carbon Monoxide (CO) | 6.1 |
| Volatile Organic Compounds (VOC) (NSR) | 1.3 |
23. The emissions from each unit exhaust stack shall not exceed the following emission limits, as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing, calculated as the average of three subtests. Compliance with each limit shall be based on a calendar day averaging period.
- | Pollutant | Limit, lbs/day |
|--|----------------|
| Oxides of Nitrogen (NO _x), calculated as NO ₂ | 141.2 |
| Carbon Monoxide (CO) | 182.2 |
| Volatile Organic Compounds (VOC) (NSR) | 36.5 |
24. The discharge of total particulate matter from the unit exhaust stack of the combustion turbine shall not exceed 0.10 grains per dry standard cubic foot standardized to 12% CO₂. The District may require periodic testing to verify compliance with this standard. (Rule 53)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889


25. The emissions from each unit exhaust stack shall not exceed the following emission limits, as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing, calculated as the average of three subtests. Compliance with each limit shall be based on a rolling 12 calendar month averaging period, updating once each calendar month. Records demonstrating compliance with these limits shall be available for inspection 30 days after the end of each calendar quarter.
- | | | |
|---|------------------|--|
| Pollutant | Limit, tons/year | |
| Oxides of Nitrogen (NOx), calculated as NO2 | 8.6 | |
| Carbon Monoxide (CO) | 11.3 | |
| Volatile Organic Compounds (VOC) | 2.3 | |
- (NSR)
26. Emissions of particulate matter 10 microns or less (PM10) from the unit exhaust stack shall not exceed 3.0 lbs per hour. Compliance with this limit shall be demonstrated based upon initial source testing calculated as the average of three subtests. The total PM and condensable PM measured using EPA Method 5 and 202 will be assumed to be PM10. (NSR; Rule 21)
27. Fuel flowmeters with an accuracy of +/- 2% shall be maintained to measure the volumetric flow rate corrected for temperature and pressure. Correction factors and constants shall be maintained on site and made available to the District upon request. The fuel flowmeters shall meet the applicable quality assurance requirements of 40 CFR part 75, Appendix D, and Section 2.1.6. (Rule 69.3.1)
28. Visible emissions, including emissions from the lube oil vents and the exhaust stack of the unit shall not exceed 20% opacity, excluding water vapor, for more than three (3) minutes in any period of 60 consecutive minutes. (Rule 50)
29. Before operating an SCR system, continuous monitors shall be installed on each SCR system to monitor or calculate, and record the ammonia injection rate (lbs/hour) and the SCR catalyst temperature (°F). The monitors shall be installed, calibrated and maintained in accordance with a District approved protocol. This protocol, which shall include the calculation methodology, shall be submitted to the District for written approval at least 60 days prior to initial startup of the gas turbines with the SCR system. The monitors shall be in full operation at all times when the turbine is in operation. (NSR)
30. Except during startup and shutdown conditions, the water injection system, the SCR system and oxidation catalyst control system, including the ammonia injection system serving the turbine, shall be in full operation at all times when the turbine is in operation. (NSR)
31. All records required by this written permit shall be maintained on site for a minimum of five years and made available to the District upon request. (Rule 1421)
32. In the event of a breakdown in an automatic ammonia injection control system, the unit shall be shut down or a trained operator shall operate the ammonia injection control system manually and the breakdown shall be reported to the District Compliance Division pursuant to Rule 98(B)(1) and 98(E). (Rule 98)
34. Each turbine shall be equipped with continuous monitors to measure or calculate, and record, the following operational characteristics of each unit:
- i. Hours of operation (hours),
 - ii. Natural gas flow rate (scfh),
 - iii. Heat input rate (MMBtu /hr),
 - iv. Exhaust gas temperature (°F),
 - v. Power output (gross MW).
 - vi. Water (for NOx control) injection rate (gal/hour) if equipped with water injection.
 - vii. SCR inlet temperature (°F)
 - viii. Ammonia injection rate (gal/hour)
- (NSR; Rule 21)
35. A CEMS Protocol is a document approved in writing by the APCD M&TS Division that describes the quality assurance and quality control procedures for monitoring, calculating and recording stack emissions from the unit. (Rule 69.3.1; Rule 21)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889



36. The permittee shall submit a turbine operation monitoring protocol, which shall include relevant calculation methodologies to the District for written approval. The monitors shall be installed, calibrated, and maintained in accordance with the protocol. The monitors should be in full operation at all times when the turbine is in operation. Calibration records for the continuous monitors shall be maintained on site and made available to the District upon request. The permittee shall make the site available for inspection of the turbine operation monitors and monitor maintenance records by representatives of the District, CARB, and the California Energy Commissions. (Rule 69.3.1; NSR; Rule 21)
37. The exhaust stacks for each turbine shall be equipped with source test ports and platforms to allow for the measurement and collection of stack gas samples consistent with all approved test protocols. The ports and platforms shall be constructed in accordance with District Method 3A, Figure 2, and approved by the District. (Rule 19)
38. If source testing will be performed by an independent contractor and witnessed by the District, a source test protocol shall be submitted to the District for written approval at least 30 days prior to source testing. (Rule 69.3.1)
39. Within 45 days after completion of the renewal source test or RATA, a final test report shall be submitted to the District for review and approval. (Rule 69.3.1)
40. This unit shall be source tested to demonstrate compliance with the NO_x, CO, VOC, and Ammonia emission standards of this permit, using District approved methods. The source test and the NO_x 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. (NSR, Rule 1200)
41. The permittee shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (40 CFR Part 75; Rule 21)
42. At least 60 days prior to the operation of the CEMs, the permittee shall submit a CEMs operating protocol to the District for written approval. The permittee shall make the site available for inspection of the CEMs and CEMs maintenance records by representatives of the District, CARB, and the California Energy Commission. (Rule 69.3.1)
43. A monitoring plan in conformance with 40 CFR 75.53 shall be submitted to U.S EPA Region 9 and the District at least 45 days prior to the Relative Accuracy Test Audit test, as required in 40 CFR 75.62. (40 CFR Part 75)
44. A Relative Accuracy Test Audit (RATA) and other required certification tests shall be performed and completed on the CEMs in accordance with 40 CFR Part 75 Appendix A Specifications and Test Procedures. At least 30 days prior to the test date, the permittee shall submit a test protocol to the District for written approval. Additionally, the District shall be notified a minimum of 21 days prior to the test so that observers may be present. Within 45 days of completion of this test, a written test report shall be submitted to the District for approval. (40 CFR Part 75)
45. The Oxides of Nitrogen (NO_x) and Oxygen (O₂) CEMs shall be certified and maintained in accordance with applicable Federal Regulations including the requirements of:
 - a. -Sections 75.10 and 75.12 of Title 40 Code of Federal Regulations Part 75 (40 CFR 75).
 - b. -The performance specifications of Appendix A of 40 CFR 75.
 - c. -The quality assurance procedures of Appendix B of 40 CFR 75.
 - d. -The CEMs protocol approved by the District.The Carbon Monoxide (CO) CEMS shall be certified and maintained in accordance with 40 CFR 60, Appendices B and F, unless otherwise specified in this permit. (Rule 69.3.1)
47. The CEMS shall be in operation in accordance with the District approved CEMs monitoring protocol at all times when the turbine is in operation. A copy of the District approved CEMS monitoring protocol shall be maintained on site and made available to District personnel upon request. (Rule 69.3.1)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889


48. Continuous emission monitoring system (CEMS) shall be installed and properly maintained and calibrated to measure, calculate and record the following, in accordance with the District approved CEMS protocol:
- a. Percent oxygen (O₂) in the exhaust gas (%);
 - b. Average concentration of oxides of nitrogen (NO_x) for each clock-hour period, in parts per million (ppmv) corrected to 15% oxygen;
 - c. Average concentration of carbon monoxide (CO) for each clock-hour period, in parts per million (ppmv) corrected to 15% oxygen;
 - d. Average concentration of volatile organic compound (VOC) for each clock-hour period, in parts per million (ppmv) corrected to 15% oxygen, based on the CO/VOC surrogate relationship;
 - e. Clock hour mass emissions of oxides of nitrogen (NO_x), in lbs/hour;
 - f. Clock hour mass emissions of carbon monoxide (CO), in lbs/hour;
 - g. Clock hour mass emissions of volatile organic compound (VOC) in lbs/hour, based on the CO/VOC surrogate relationship;
 - h. Calendar day mass emissions of oxides of nitrogen (NO_x) in lbs/day;
 - i. Calendar day mass emissions of carbon monoxide (CO) in lbs/day;
 - j. Calendar day mass emissions of volatile organic compounds (VOC) in lbs/day;
 - k. Rolling 12-calendar month mass emissions of oxides of nitrogen (NO_x), in tons;
 - l. Rolling 12-calendar month mass emissions of carbon monoxide (CO), in tons.
 - m. Rolling 12 calendar month mass emissions of volatile organic compound (VOC), in tons;
 - n. Natural gas flow rate to turbine in hscf/hr.
 - o. Average concentration of ammonia slip emission for each clock- hour period, in parts per million by volume (ppmv) corrected to 15% oxygen, calculated in accordance with Condition 24.
(Rule 69.3.1)
49. When the CEMS is not recording data and the turbine is operating, hourly NO_x emissions for the annual emission calculations shall be determined in accordance with 40 CFR 75 Subpart C. Additionally, hourly CO emissions for annual emission calculations shall be determined using CO emission factors to be determined from source test emission factors, recorded CEMS data, and fuel consumption data, in terms of pounds per hour of CO for the gas turbine. Emission calculations used to determine hourly emission rates shall be reviewed and approved by the District, in writing, before the hourly emission rates are incorporated into the CEMS emission data. (NSR)
50. Any violation of any emission standard as indicated by the CEMS shall be reported to the District's Compliance Division within 96 hours after such occurrence. (CA Health and Safety Code)
51. The CEMS shall be maintained and operated, and reports submitted, in accordance with applicable federal requirements including Appendices B and F of 40 CFR Part 60, Appendices A and B of 40 CFR Part 75, 40 CFR Parts 75.10 and 75.12, and a CEMS Protocol approved by the District. [Rule 69.3.1]



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889


52. An operating log or data acquisition and handling system (DAHS) records shall be maintained either on site or at a District approved alternate location to record actual times and durations of all startups and shut-downs, quantity of fuel used (hscf) in each clock hour, calendar month and 12 calendar month period, hours of daily operation and total cumulative hours of operation during each calendar year. (NSR)
53. The District shall be notified at least two weeks prior to any changes made in CEMS software that affect the measurement, calculation or correction of data displayed and/or recorded by the CEMS. (NSR)
54. Except during periods when the ammonia injection system is being tuned or one or more ammonia injection systems is in manual control (for compliance with applicable permits), the automatic ammonia injection system serving the SCR shall be in operation in accordance with manufacturer's specifications at all times when ammonia is being injected into the SCR. Manufacturer specifications shall be maintained on site and made available to District personnel upon request. (NSR)
57. Total aggregate emissions from all stationary emission units at this stationary source, except emissions or emission units excluded from the calculation of aggregate potential to emit as specified in Rule 20.1 (d) (1), shall not exceed the following limits in each rolling 12-calendar month period. The total aggregate emissions shall include emissions during all times that the equipment is operating, including but not limited to, emissions during periods of commissioning, startup, shutdown and tuning. Records demonstrating compliance with these limits shall be available for inspection 30 days after the end of each calendar quarter.
 - i. Oxides of Nitrogen (NOx): 49.5 tons/year
 - ii. Carbon Monoxide (CO): 99 tons/year
 - iii. Volatile Organic Compounds (VOC): 49.5 tons/year
 - iv. Oxides of Sulfur (SOx): 99 tons/year
 - v. Particulate Matter (PM10) 99 tons/year(NSR)
58. The emissions of any single federal Hazardous Air Pollutant (HAP) shall not equal or exceed 9.9 tons, and the aggregate emissions of all federal HAPs shall not equal or exceed 24.75 tons in any rolling 12-calendar month period. Compliance with these single and aggregate HAP limits shall be based on a methodology approved by the District for the purpose of calculating HAP emissions for this permit. If emissions exceed these limits, the permittee shall apply to amend this permit to reflect applicable federal Maximum Achievable Control Technology (MACT) standards and requirements in accordance with applicable provisions (including timing requirements) of 40 CFR Part 63. Records demonstrating compliance with these limits shall be available for inspection 30 days after the end of each calendar quarter. (40 CFR Part 63)
59. The permittee shall submit a source test protocol to the District for approval. The source test protocol shall comply with the following requirements:
 - a. Measurements of NOX, CO, and O2 emissions shall be conducted in accordance with U.S. Environmental Protection Agency (EPA) methods 7E, 10, and 3A, respectively, and district Source Test, method 100, or alternative methods approved by the District;
 - b. Measurement of VOC emissions shall be conducted in accordance with EPA Methods 25A and/or 18, or alternative methods approved by the District;
 - c. Measurements of PM-10 emissions shall be conducted in accordance with EPA Methods 5 and 201A or 202, or alternative methods approved by the district;
 - d. Measurements of ammonia emissions shall be conducted in accordance with Bay Area Air Quality Management District ST-1B or an alternative method approved by the District;
 - e. Source testing shall be performed at the normal load level, as specified in 40 CFR part 75 Appendix A Section 6.5.2.1.d, provided it is not less than 80% of the unit's rated load unless it is demonstrated to the satisfaction of the district that the unit cannot operate under these conditions. If the demonstration is accepted, then emissions source testing shall be performed at the highest achievable continuous level power level.
 - f. Measurements of opacity shall be conducted in accordance with EPA Method 9 or an alternative method approved by the District.
 - g. Measurement of fuel flow shall be conducted in accordance with an approved test protocol. (Rule 69.3.1; Rule 21)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000889


B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

33. The concentration of ammonia solution used in the ammonia injection system shall be less than 20% ammonia by weight. Records of ammonia deliveries and ammonia solution concentration shall be maintained on site and made available to District personnel upon request. (Rule 1200)
46. Ammonia emissions from each unit exhaust stack shall not exceed 5 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen, averaged over a clock-hour period. This limit shall not apply during startup and shutdown conditions. Compliance with this limit shall be demonstrated through source testing calculated as the average of three subtests and utilizing one of the following procedures:
- a. Calculate ammonia emissions using the following equation:
$$\text{NH}_3 = ((a - (b * c / 1,000,000)) * (1,000,000 / b)) * d$$

Where: a = ammonia injection rate (lbs/hour) / (17.0 lbs/lb-mole),
b = exhaust flow rate at 15% oxygen / (29 lbs/lb-mole)
c = change in measured NOx concentration (ppmvd @ 15% Oxygen) across the catalyst,
d = ratio of measured ammonia slip to calculate ammonia slip as derived during compliance testing.
- b. Calculate ammonia emissions using the following equation:
$$\text{NH}_3 = (((a / b) * 1,000,000) - 1.2c) * d$$

Where: a = ammonia injection rate (lbs/hour) / (0.04478 lbs NH3 / cft NH3),
b = exhaust flow rate at 15% oxygen (scft/hour),
c = change in measured NOx concentration (ppmvd @ 15% Oxygen) across the catalyst,
d = ratio of measured ammonia slip to calculated ammonia slip as derived during compliance testing. (Rule 1200)
55. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
56. 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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890

Orange Grove Energy LP
 Ramiro Garca
 35435 East Pala Del Norte Rd
 Pala CA, 92059

EQUIPMENT ADDRESS
 Orange Grove Energy LP
 Ramiro Garcia
 35435 East Pala Del Norte Rd
 Pala CA 92059

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

J-Power USA Development Co. LTD Paul Peterson 35435 East Pala Del Norte Rd, Pala, CA 92059

EQUIPMENT DESCRIPTION

One natural gas simple cycle combustion turbine generator (Unit 2): Make General Electric, Model LM6000 PC SPRINT, nominal output 49.8 MW, with water injection, a selective catalytic reduction (SCR) unit with ammonia injection control system, an oxidation catalyst, data acquisition system (DAHS) and continuous emission monitoring system (CEMS). (APCD2008-APP-985711/CCN/Sept 2011)

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 [93A] Test Witness and Report Review (T&M)
 1 [20F] Non- Aircraft Turbine Engine

BEC: APCD2011-CON-000320

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. The Emission unit shall be fired on Public Utility Commission (PUC) quality natural gas only. The permittee shall maintain quarterly records of sulfur content (grains/100 dscf) and higher heating value (Btu/dscf) of the natural gas and provide such records to the District personnel upon request. [Rule 62 and/or 40 CFR 60 Subpart KKKK]
2. This equipment shall be properly maintained and kept in good operating condition at all times. (NSR and Rule 21)
3. The permittee shall operate the project in accordance with all data and specifications submitted with the application. (Rule 10)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890


4. The permittee shall submit a source test protocol to the District for approval. The source test protocol shall comply with the following requirements:
 - a. Measurements of NOX, CO, and O2 emissions shall be conducted in accordance with U.S. Environmental Protection Agency (EPA) methods 7E, 10, and 3A, respectively, and district Source Test, method 100, or alternative methods approved by the District;
 - b. Measurement of VOC emissions shall be conducted in accordance with EPA Methods 25A and/or 18, or alternative methods approved by the District;
 - c. Measurements of PM-10 emissions shall be conducted in accordance with EPA Methods 5 and 201A or 202, or alternative methods approved by the district;
 - d. Measurements of ammonia emissions shall be conducted in accordance with Bay Area Air Quality Management District ST-1B or an alternative method approved by the District;
 - e. Source testing shall be performed at the normal load level, as specified in 40 CFR part 75 Appendix A Section 6.5.2.1.d, provided it is not less than 80% of the unit's rated load unless it is demonstrated to the satisfaction of the district that the unit cannot operate under these conditions. If the demonstration is accepted, then emissions source testing shall be performed at the highest achievable continuous level power level.
 - f. Measurements of opacity shall be conducted in accordance with EPA Method 9 or an alternative method approved by the District.
 - g. Measurement of fuel flow shall be conducted in accordance with an approved test protocol. (Rule 69.3.1; Rule 21)
5. 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)
6. The permittee shall obtain any necessary District permits for all ancillary combustion equipment including emergency engines, prior to on-site delivery of the equipment. (Rule 10)
7. The exhaust stacks for the combustion turbines shall be at least 80 feet in height above site base elevation. (NSR)
8. The unit shall be fired on Public Utility Commission (PUC) quality natural gas only. The permittee shall maintain quarterly records of sulfur content (grains/100 dscf) and higher and lower heating values (Btu/dscf) of the natural gas and provide such records to the District personnel upon request. (Rule 62 and/or 40 CFR 60 Subpart KKKK)
9. The permittee shall comply with all the applicable provisions of 40 CFR 73, including requirements to offset, hold and retire SO2 allowances. (40 CFR Part 73)
10. The total combined operating hours for the combustion turbines of Permit No. APCD2011-PTO-000889 and APCD2011-PTO-000890 shall not exceed 6,400 hours per calendar year. (NSR)
11. The permittee shall comply with the applicable requirements in 40 CFR Parts 60, 72, 73, and 75. (Rules 1412 and 1421)
12. For purposes of determining compliance based on source testing, the average of three subtests shall be used. For purposes of determining compliance with emission limits based on the CEMS, data collected in accordance with the CEMS protocol shall be used and averaging periods shall be as specified herein. (Rule 69.3.1; Rule 21)
13. For the purposes of this Permit to Operate, startup conditions shall be defined as the period of time that begins when fuel flows to the turbine and shall continue for no longer than 30 consecutive minutes. Shutdown conditions shall be defined as the 15 minute period preceding the moment at which fuel flow ceases. The Data Acquisition and Recording System (DAS), as required by 40 CFR 75, shall record these events. This condition may be modified by the District based on field performance of the equipment. (NSR)
14. For each emission limit expressed as pounds per hour or parts per million based on a clock-hour averaging period, compliance shall be based on continuous emission data collected at least once every 15 minutes. (40 CFR Part 75; Rule 21)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890


15. During startup conditions, the emissions from each unit exhaust stack shall not exceed the following emission limits as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing. Compliance with each limit shall be based on the startup period.
Pollutant Limit, lbs/event
Oxides of Nitrogen (NOx), calculated as NO₂ 13.25
Carbon Monoxide (CO) 12.05
Volatile Organic Compounds (VOC) 1.95
(NSR)
16. Emissions of nitrogen oxides from each unit exhaust stack shall not exceed 25 parts per million by volume, dry basis (ppmvd) at 15 percent O₂ or 150 ng/J of useful output (1.2 lb/MWh) (4 hour average pursuant to 40 CFR § 60.4380(b)). This limit applies at all times including periods of startup and shutdown. [40 CFR 60 Subpart KKKK, Appendix Table 1]
17. Excess emissions shall be as defined in 40 CFR Subpart KKKK § 60.4380. An excess emission is any unit operating period, including periods of startup and shutdown, in which the 4-hour or 30-day rolling average NO_x emission rate exceeds the applicable emission limit in 40 CFR 60 Subpart KKKK, Appendix Table 1.
18. For each affected unit required to continuously monitor parameters or emissions the permittee must submit to the District reports of excess emissions and monitor downtime, in accordance with 40 CFR 60 Subpart KKKK 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction. Reports submitted pursuant to this requirement shall be postmarked no later than the 30th day following the end of the 6-month reporting period. 6-month reporting periods comprise January 1 through June 30, and July 1 through December 31. [40 CFR Subpart KKKK 60.4375(a)]
19. During shutdown conditions, the emissions from each unit exhaust stack shall not exceed the following emission limits as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing. Compliance with each limit shall be based on the shutdown period
Pollutant Limit, lbs/event
Oxides of Nitrogen (NOx), calculated as NO₂ 2.68
Carbon Monoxide (CO) 4.43
Volatile Organic Compounds (VOC) 0.73
(NSR)
20. The emissions concentration of oxides of nitrogen (NO_x) from the unit exhaust stack, calculated as nitrogen dioxide (NO₂), shall not exceed 2.5 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over a clock hour period. Compliance with this limit shall be demonstrated continuously based on the CEMs data and based on source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions as defined herein. (NSR)
21. The emissions concentration of carbon monoxide (CO) from the unit exhaust stack shall not exceed 6.0 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over a clock-hour period. Compliance with this limit shall be demonstrated continuously based on the CEMs data and based upon source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions as defined herein. (NSR)
22. The volatile organic compounds (VOC) emission concentration from the unit exhaust stack, calculated as methane, measured in the exhaust stack, shall not exceed 2.0 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each clock-hour period. Compliance with this limit shall be demonstrated continuously based on the CEMs data and based on source testing calculated as the average of three subtests. At the time of the initial compliance test, a District-approved CO/VOC surrogate relationship shall be established. The CO/VOC surrogate relationship shall be verified and/or modified, if necessary, based on annual source testing. This limit shall not apply during startup and shutdown conditions as defined herein. (NSR)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890


23. The emissions from each unit exhaust stack shall not exceed the following emission limits, except during startup and shutdown conditions, as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing, calculated as the average of three subtests. Compliance with each limit shall be based on a clock-hour averaging period.
- | Pollutant | Limit, lbs/hour |
|--|-----------------|
| Oxides of Nitrogen (NO _x), calculated as NO ₂ | 4.3 |
| Carbon Monoxide (CO) | 6.1 |
| Volatile Organic Compounds (VOC) | 1.3 |
- (NSR)
24. The emissions from each unit exhaust stack shall not exceed the following emission limits, as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing, calculated as the average of three subtests. Compliance with each limit shall be based on a calendar day averaging period.
- | Pollutant | Limit, lbs/day |
|--|----------------|
| Oxides of Nitrogen (NO _x), calculated as NO ₂ | 141.2 |
| Carbon Monoxide (CO) | 182.2 |
| Volatile Organic Compounds (VOC) | 36.5 |
- (NSR)
25. The discharge of total particulate matter from the unit exhaust stack of the combustion turbine shall not exceed 0.10 grains per dry standard cubic foot standardized to 12% CO₂. The District may require periodic testing to verify compliance with this standard. (Rule 53)
26. The emissions from each unit exhaust stack shall not exceed the following emission limits, as determined by the continuous emission monitoring system (CEMs) and/or District-approved emission testing, calculated as the average of three subtests. Compliance with each limit shall be based on a rolling 12 calendar month averaging period, updating once each calendar month. Records demonstrating compliance with these limits shall be available for inspection 30 days after the end of each calendar quarter.
- | Pollutant | Limit, tons/year |
|--|------------------|
| Oxides of Nitrogen (NO _x), calculated as NO ₂ | 8.6 |
| Carbon Monoxide (CO) | 11.3 |
| Volatile Organic Compounds (VOC) | 2.3 |
- (NSR)
27. Emissions of particulate matter 10 microns or less (PM₁₀) from the unit exhaust stack shall not exceed 3.0 lbs per hour. Compliance with this limit shall be demonstrated based upon initial source testing calculated as the average of three subtests. The total PM and condensable PM measured using EPA Method 5 and 202 will be assumed to be PM₁₀. (NSR; Rule 21)
28. Fuel flowmeters with an accuracy of +/- 2% shall be maintained to measure the volumetric flow rate corrected for temperature and pressure. Correction factors and constants shall be maintained on site and made available to the District upon request. The fuel flowmeters shall meet the applicable quality assurance requirements of 40 CFR part 75, Appendix D, and Section 2.1.6. (Rule 69.3.1)
29. Visible emissions, including emissions from the lube oil vents and the exhaust stack of the unit shall not exceed 20% opacity, excluding water vapor, for more than three (3) minutes in any period of 60 consecutive minutes. (Rule 50)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890


30. Total aggregate emissions from all stationary emission units at this stationary source, except emissions or emission units excluded from the calculation of aggregate potential to emit as specified in Rule 20.1 (d) (1), shall not exceed the following limits in each rolling 12-calendar month period. The total aggregate emissions shall include emissions during all times that the equipment is operating, including but not limited to, emissions during periods of commissioning, startup, shutdown and tuning. Records demonstrating compliance with these limits shall be available for inspection 30 days after the end of each calendar quarter.
 - i. Oxides of Nitrogen (NOx): 49.5 tons/year
 - ii. Carbon Monoxide (CO): 99 tons/year
 - iii. Volatile Organic Compounds (VOC): 49.5 tons/year
 - iv. Oxides of Sulfur (SOx): 99 tons/year
 - v. Particulate Matter (PM10) 99 tons/year (NSR)
31. The emissions of any single federal Hazardous Air Pollutant (HAP) shall not equal or exceed 9.9 tons, and the aggregate emissions of all federal HAPs shall not equal or exceed 24.75 tons in any rolling 12-calendar month period. Compliance with these single and aggregate HAP limits shall be based on a methodology approved by the District for the purpose of calculating HAP emissions for this permit. If emissions exceed these limits, the permittee shall apply to amend this permit to reflect applicable federal Maximum Achievable Control Technology (MACT) standards and requirements in accordance with applicable provisions (including timing requirements) of 40 CFR Part 63. Records demonstrating compliance with these limits shall be available for inspection 30 days after the end of each calendar quarter. (40 CFR Part 63)
32. Before operating an SCR system, continuous monitors shall be installed on each SCR system to monitor or calculate, and record the ammonia injection rate (lbs/hour) and the SCR catalyst temperature (°F). The monitors shall be installed, calibrated and maintained in accordance with a District approved protocol. This protocol, which shall include the calculation methodology, shall be submitted to the District for written approval at least 60 days prior to initial startup of the gas turbines with the SCR system. The monitors shall be in full operation at all times when the turbine is in operation. (NSR)
33. Except during startup and shutdown conditions, the water injection system, the SCR system and oxidation catalyst control system, including the ammonia injection system serving the turbine, shall be in full operation at all times when the turbine is in operation. (NSR)
34. All records required by this written permit shall be maintained on site for a minimum of five years and made available to the District upon request. (Rule 1421)
35. In the event of a breakdown in an automatic ammonia injection control system, the unit shall be shut down or a trained operator shall operate the ammonia injection control system manually and the breakdown shall be reported to the District Compliance Division pursuant to Rule 98(B)(1) and 98(E). (Rule 98)
37. A Relative Accuracy Test Audit (RATA) and other required certification tests shall be performed and completed on the CEMs in accordance with 40 CFR Part 75 Appendix A Specifications and Test Procedures. At least 30 days prior to the test date, the permittee shall submit a test protocol to the District for written approval. Additionally, the District shall be notified a minimum of 21 days prior to the test so that observers may be present. Within 45 days of completion of this test, a written test report shall be submitted to the District for approval. (40 CFR Part 75)
38. Each turbine shall be equipped with continuous monitors to measure or calculate, and record, the following operational characteristics of each unit:
 - i. Hours of operation (hours),
 - ii. Natural gas flow rate (scfh),
 - iii. Heat input rate (MMBtu /hr),
 - iv. Exhaust gas temperature (°F),
 - v. Power output (gross MW).
 - vi. Water (for NOx control) injection rate (gal/hour) if equipped with water injection.
 - vii. SCR inlet temperature (°F)
 - viii. Ammonia injection rate (gal/hour)(NSR; Rule 21)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890


39. A CEMS Protocol is a document approved in writing by the APCD M&TS Division that describes the quality assurance and quality control procedures for monitoring, calculating and recording stack emissions from the unit. (Rule 69.3.1; Rule 21)
40. The permittee shall submit a turbine operation monitoring protocol, which shall include relevant calculation methodologies to the District for written approval. The monitors shall be installed, calibrated, and maintained in accordance with the protocol. The monitors should be in full operation at all times when the turbine is in operation. Calibration records for the continuous monitors shall be maintained on site and made available to the District upon request. The permittee shall make the site available for inspection of the turbine operation monitors and monitor maintenance records by representatives of the District, CARB, and the California Energy Commissions. (Rule 69.3.1; NSR; Rule 21)
41. The exhaust stacks for each turbine shall be equipped with source test ports and platforms to allow for the measurement and collection of stack gas samples consistent with all approved test protocols. The ports and platforms shall be constructed in accordance with District Method 3A, Figure 2, and approved by the District. (Rule 19)
42. If source testing will be performed by an independent contractor and witnessed by the District, a source test protocol shall be submitted to the District for written approval at least 30 days prior to source testing. (Rule 69.3.1)
43. Within 45 days after completion of the renewal source test or RATA, a final test report shall be submitted to the District for review and approval. (Rule 69.3.1)
44. This unit shall be source tested to demonstrate compliance with the NO_x, CO, VOC, and Ammonia emission standards of this permit, using District approved methods. The source test and the NO_x 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. (NSR, Rule 1200)
45. The permittee shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (40 CFR Part 75; Rule 21)
46. At least 60 days prior to the operation of the CEMs, the permittee shall submit a CEMs operating protocol to the District for written approval. The permittee shall make the site available for inspection of the CEMs and CEMs maintenance records by representatives of the District, CARB, and the California Energy Commission. (Rule 69.3.1)
47. A monitoring plan in conformance with 40 CFR 75.53 shall be submitted to U.S EPA Region 9 and the District at least 45 days prior to the Relative Accuracy Test Audit test, as required in 40 CFR 75.62. (40 CFR Part 75)
48. The Oxides of Nitrogen (NO_x) and Oxygen (O₂) CEMs shall be certified and maintained in accordance with applicable Federal Regulations including the requirements of:
 - a. -Sections 75.10 and 75.12 of Title 40 Code of Federal Regulations Part 75 (40 CFR 75).
 - b. -The performance specifications of Appendix A of 40 CFR 75.
 - c. -The quality assurance procedures of Appendix B of 40 CFR 75.
 - d. -The CEMs protocol approved by the District.The Carbon Monoxide (CO) CEMS shall be certified and maintained in accordance with 40 CFR 60, Appendices B and F, unless otherwise specified in this permit. (Rule 69.3.1)
50. The CEMS shall be in operation in accordance with the District approved CEMs monitoring protocol at all times when the turbine is in operation. A copy of the District approved CEMS monitoring protocol shall be maintained on site and made available to District personnel upon request. (Rule 69.3.1)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890


51. Continuous emission monitoring system (CEMS) shall be installed and properly maintained and calibrated to measure, calculate and record the following, in accordance with the District approved CEMS protocol:
- a. Percent oxygen (O₂) in the exhaust gas (%);
 - b. Average concentration of oxides of nitrogen (NO_x) for each clock-hour period, in parts per million (ppmv) corrected to 15% oxygen;
 - c. Average concentration of carbon monoxide (CO) for each clock-hour period, in parts per million (ppmv) corrected to 15% oxygen;
 - d. Average concentration of volatile organic compound (VOC) for each clock-hour period, in parts per million (ppmv) corrected to 15% oxygen, based on the CO/VOC surrogate relationship;
 - e. Clock hour mass emissions of oxides of nitrogen (NO_x), in lbs/hour;
 - f. Clock hour mass emissions of carbon monoxide (CO), in lbs/hour;
 - g. Clock hour mass emissions of volatile organic compound (VOC) in lbs/hour, based on the CO/VOC surrogate relationship;
 - h. Calendar day mass emissions of oxides of nitrogen (NO_x) in lbs/day;
 - i. Calendar day mass emissions of carbon monoxide (CO) in lbs/day;
 - j. Calendar day mass emissions of volatile organic compounds (VOC) in lbs/day;
 - k. Rolling 12-calendar month mass emissions of oxides of nitrogen (NO_x), in tons;
 - l. Rolling 12-calendar month mass emissions of carbon monoxide (CO), in tons.
 - m. Rolling 12 calendar month mass emissions of volatile organic compound (VOC), in tons;
 - n. Natural gas flow rate to turbine in hscf/hr.
 - o. Average concentration of ammonia slip emission for each clock- hour period, in parts per million by volume (ppmv) corrected to 15% oxygen, calculated in accordance with Condition 24.
(Rule 69.3.1)
52. When the CEMS is not recording data and the turbine is operating, hourly NO_x emissions for the annual emission calculations shall be determined in accordance with 40 CFR 75 Subpart C. Additionally, hourly CO emissions for annual emission calculations shall be determined using CO emission factors to be determined from source test emission factors, recorded CEMS data, and fuel consumption data, in terms of pounds per hour of CO for the gas turbine. Emission calculations used to determine hourly emission rates shall be reviewed and approved by the District, in writing, before the hourly emission rates are incorporated into the CEMS emission data. (NSR)
53. Any violation of any emission standard as indicated by the CEMS shall be reported to the District's Compliance Division within 96 hours after such occurrence. (CA Health and Safety Code)
54. The CEMS shall be maintained and operated, and reports submitted, in accordance with applicable federal requirements including Appendices B and F of 40 CFR Part 60, Appendices A and B of 40 CFR Part 75, 40 CFR Parts 75.10 and 75.12, and a CEMS Protocol approved by the District. [Rule 69.3.1]



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2016-APP-004406

PERMIT ID
APCD2011-PTO-000890


- 55. An operating log or data acquisition and handling system (DAHS) records shall be maintained either on site or at a District approved alternate location to record actual times and durations of all startups and shut-downs, quantity of fuel used (hscf) in each clock hour, calendar month and 12 calendar month period, hours of daily operation and total cumulative hours of operation during each calendar year. (NSR)
- 56. The District shall be notified at least two weeks prior to any changes made in CEMS software that affect the measurement, calculation or correction of data displayed and/or recorded by the CEMS. (NSR)
- 58. Except during periods when the ammonia injection system is being tuned or one or more ammonia injection systems is in manual control (for compliance with applicable permits), the automatic ammonia injection system serving the SCR shall be in operation in accordance with manufacturer's specifications at all times when ammonia is being injected into the SCR. Manufacturer specifications shall be maintained on site and made available to District personnel upon request. (NSR)

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

- 36. The concentration of ammonia solution used in the ammonia injection system shall be less than 20% ammonia by weight. Records of ammonia deliveries and ammonia solution concentration shall be maintained on site and made available to District personnel upon request. (Rule 1200)
- 49. Ammonia emissions from each unit exhaust stack shall not exceed 5 parts per million by volume on a dry basis (ppmvd) corrected to 15% oxygen, averaged over a clock-hour period. This limit shall not apply during startup and shutdown conditions. Compliance with this limit shall be demonstrated through source testing calculated as the average of three substests and utilizing one of the following procedures:
 - a. Calculate ammonia emissions using the following equation:
$$\text{NH}_3 = ((a - (b * c / 1,000,000)) * (1,000,000 / b)) * d$$

Where: a = ammonia injection rate (lbs/hour) / (17.0 lbs/lb-mole),
b = exhaust flow rate at 15% oxygen / (29 lbs/lb-mole)
c = change in measured NOx concentration (ppmvd @ 15% Oxygen) across the catalyst,
d = ratio of measured ammonia slip to calculate ammonia slip as derived during compliance testing.
 - b. Calculate ammonia emissions using the following equation:
$$\text{NH}_3 = (((a / b) * 1,000,000) - 1.2c) * d$$

Where: a = ammonia injection rate (lbs/hour) / (0.04478 lbs NH3 / cft NH3),
b = exhaust flow rate at 15% oxygen (scft/hour),
c = change in measured NOx concentration (ppmvd @ 15% Oxygen) across the catalyst,
d = ratio of measured ammonia slip to calculated ammonia slip as derived during compliance testing. (Rule 1200)
- 59. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
- 60. 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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2007-APP-985709

PERMIT ID
APCD2011-PTO-000891

Orange Grove Energy LP
 Ramiro Garca
 35435 East Pala Del Norte Rd
 Pala CA, 92059

EQUIPMENT ADDRESS
 Orange Grove Energy LP
 Ramiro Garcia
 35435 East Pala Del Norte Rd
 Pala CA 92059

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

J-Power USA Development Co. LTD Paul Peterson 35435 East Pala Del Norte Rd, Pala, CA 92059

EQUIPMENT DESCRIPTION

Emergency fire pump engine: Cummins, Model CPF11E-F10, based on Cummins diesel engine Model QSM11, S/N 35229758, rated at 373 bhp, Model Year 2008, EPA Tier2 certified of Engine Family Number 4CEXL0661AAD.(APCD2007-APP-985709/CCN/Sept 2011)

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 [34H] California Certified Emergency Standby Engine

BEC: APCD2011-CON-000323

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-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 50 hours per calendar year unless otherwise required by National Fire Protection Association (NFPA) Section 25. Additionally, engine operation for maintenance and testing purposes shall not exceed 0.5 hours per day. (17 CCR 93115, Rule 1200, NSR, 40 CFR 60 Subpart IIII)
3. This engine shall only use CARB diesel fuel. (Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)
4. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
5. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2007-APP-985709

PERMIT ID
APCD2011-PTO-000891


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. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
10. 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.
[Rules 69.4 or 69.4.1 or 17 CCR 93115 or 17 CCR 93116 or 40 CFR 60 subpart IIII or JJJJ or 40 CFR 63 subpart ZZZZ]
11. The owner or operator of this engine shall install, configure, operate, and maintain this engine and control device, if any, according to the manufacturer's emission-related written instructions. The owner or operator may change only those emission-related settings that are permitted by the manufacturer. The periodic maintenance shall be conducted at least once each calendar year. (Rule 69.4.1, 40 CFR 60 Subpart IIII)
12. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary; and
 - 3) Inspect all hoses and belts, replacing as necessary.Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
(Rule 69.4.1, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart IIII)
13. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - (a) documentation shall be maintained identifying the fuel as CARB diesel.
 - (b) manual of recommended maintenance provided by the manufacturer.(Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD2007-APP-985709

PERMIT ID
APCD2011-PTO-000891


14. The owner or operator of this engine shall maintain a monthly operating log containing, at a minimum, the following:
 - (a) dates and elapsed times of every instance of engine operation based on actual readings of the engine hour meter; whether the operation was for maintenance and testing purposes, compliance with the testing requirements of National Fire Protection Association (NFPA) Section 25 or emergency use; and the nature of the emergency;
 - (b) if located within 500 feet of a school, the time of day of every instance of engine operation for testing and maintenance, unless the engine emits no more than 0.01 g/bhp-hr of diesel particulate matter or meets the requirements specified in 17CCR, Section 93115.13(f);
 - (c) total cumulative hours of operation per calendar year;
 - (d) records of annual engine maintenance shall include the date the maintenance was performed and the nature of the maintenance; and
 - (e) hours of operation for all uses other than those specified above and identification of the nature of that use. (Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 60 Subpart ZZZZ)
15. All records required by this permit shall be maintained on site and readily available for District inspection for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. (Rule 69.4.1, 40 CFR 60 Subpart IIII)

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

8. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
9. 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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD Condition Update

PERMIT ID
APCD2011-PTO-000892

Orange Grove Energy LP
 Ramiro Garca
 35435 East Pala Del Norte Rd
 Pala CA, 92059

EQUIPMENT ADDRESS
 Orange Grove Energy LP
 Ramiro Garcia
 35435 East Pala Del Norte Rd
 Pala CA 92059

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

J-Power USA Development Co. LTD Paul Peterson 35435 East Pala Del Norte Rd, Pala, CA 92059

EQUIPMENT DESCRIPTION

Emergency black start engine: Cummins engine, fueled with natural gas, Model GTA38G2, S/N X25328866, rated at 965 bhp, equipped with Miratech catalytic converter, Model RHS-4228-14-ECI, S/N RHS-1336 and Miratech air to fuel ratio controller Model MEC-R.(APCD2007-APP-985710/CCN/Sept 2011)

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: APCD2016-CON-001167

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-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. This engine shall not be used as a part of a non-emergency Demand Response Program (DRP). This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115.4(a)(65). (Rule 12, or Rule 69.4.1)
3. Engine operation for maintenance and testing purposes shall not exceed 52 hours per calendar year. Additionally, engine operation for maintenance and testing purposes shall not exceed 0.5 hours per day. (17 CCR 93115, Rule 1200, NSR, 40 CFR 60 Subpart JJJJ)
4. Gaseous fuel engines shall use only gaseous fuel which contains no more than 10 grains of sulfur compounds, calculated as hydrogen sulfide, per 100 cubic feet of dry gaseous fuel at standard conditions. Gaseous fuels include natural gas, propane, liquefied petroleum gas (LPG), butane. Gasoline engines shall use only California reformulated gasoline. [Rule 62]



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD Condition Update

PERMIT ID
APCD2011-PTO-000892


5. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
6. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)
7. The owner or operator of this engine shall, at their discretion, either:
 - a) operate and maintain a certified engine and any control device according to the manufacturer's emission-related written instructions, or
 - b) operate and maintain the engine in a manner consistent with good air pollution control practice for minimizing emissions.
The periodic maintenance shall be conducted at least once each calendar year.
(40 CFR 60 Subpart JJJJ, or Rule 12, or Rule 69.4.1)
8. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation 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 onsite and made available to the Air Pollution Control District upon request.
(Rule 69.4.1, 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ)
9. The owner or operator of the engine shall maintain the manual of recommended maintenance provided by the manufacturer, or other maintenance procedure as approved in writing by the Air Pollution Control Officer on site for at least the same period of time as the engine is located at the site. This manual shall be made available to the Air Pollution Control District upon request.
(Rule 69.4.1, 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ)
10. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary;
 - 3) Inspect all hoses and belts, replacing as necessary; and
 - 4) Inspect spark plugs, if equipped, replacing as necessary.Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
(Rule 69.4.1, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 JJJJ).
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.



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: 1, A
Site ID: APCD2007-SITE-06289
App ID: APCD Condition Update

PERMIT ID
APCD2011-PTO-000892


14. The owner or operator of this engine shall maintain a monthly operating log containing, at a minimum, the following:
 - (a) dates and elapsed times of every instance of engine operation based on actual readings of the engine hour meter; whether the operation was for maintenance and testing purposes or emergency use; and the nature of the emergency;
 - (b) for a total external power outage, documentation from the serving utility of an outage in the area where the engine is located; for an internal power outage, a description of what caused the failure and receipts and/or work orders for the necessary repairs; for a partial external power outage, including a low-voltage or electrical transient incident in which the external power voltage is low enough to trigger the operation of an emergency standby engine, a description of the incident;
 - (c) total cumulative hours of operation per calendar year;
 - (d) records of annual engine maintenance shall include the date the maintenance was performed and the nature of the maintenance; and
 - (e) hours of operation for all uses other than those specified above and identification of the nature of that use. (Rule 69.4.1, 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ)
15. All records required by this permit shall be maintained on site and readily available for District inspection for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. (Rule 12, Rule 69.4.1, 40 CFR 60 Subpart JJJJ)

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.)

APPENDIX B: RULE REFERENCE TABLE

Rule Citation ¹	RULE TITLE	A/R ²	District Adoption Date ³	SIP FR Approval Date
	REGULATION I - GENERAL PROVISIONS			
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 [†]	09/22/72
5	Authority to Arrest	F	03/24/76 [†]	05/11/77
	REGULATION II - PERMITS			
10	Permits Required	F	07/25/95	03/11/98
10.1 ^{††}	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 ^{††}	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	F	04/25/89	10/04/18
20.1	NSR - General Provisions	F	04/27/16	10/04/18
20.2	NSR - Non-major Stationary Sources	F	04/27/16	10/04/18
20.3	NSR - Major Stationary Source and PSD Stationary Source	F	04/27/16	10/04/18
20.4	NSR - Portable Emission Units	F	04/27/16	10/04/18
20.5	Power Plants	F	07/05/79	04/14/81
20.6	Standards for Permit to Operate - Air Quality Analysis	F	04/27/16	10/04/18
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 [†]	N/A
23	Further Information	D/F	01/01/69 [†]	N/A
24	Temporary Permit to Operate	F	03/20/96	10/24/08
25	Appeals	F	01/01/69 [†]	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
	REGULATIONS III - FEES			
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
	REGULATIONS IV - PROHIBITIONS			
50	Visible Emissions	F	08/13/97	12/7/98
50.1††	NSPS & NESHAPS Visible Emissions Requirements	D	11/08/76	N/A
51	Nuisance	F	01/01/69†	09/22/72
52	Particulate Matter	F	01/22/97	12/9/98
52.1††	NSPS & NESHAPS Particulate 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†	09/22/72
53.2††	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†	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 [†]	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 ^{††}	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
67.0.1	Architectural Coatings	F	06/24/15	11/13/15
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
67.12.1	Polyester Resin Operations	F	05/11/16	04/02/18
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/F	03/25/09	Pending
69.2.2	Medium Boilers, Process Heaters and Steam Generators	D/F	07/08/20	Pending
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 (withdrawal pending EPA approval of 69.4.1)	D/F	07/30/03	2/25/04 (Withdrawal Pending)
69.4.1	Stationary Internal Combustion Engines - BARCT	D/F	11/15/00	Pending
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
	REGULATION V - PROCEDURES BEFORE THE HEARING BOARD			
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
	REGULATION VI - BURNING CONTROL			
101	Burning Control	F	09/25/02	04/30/03
	REGULATION VII - VALIDITY AND EFFECTIVE DATE			
140	Validity	F	01/01/69†	09/22/72
141	Effective Date	F	01/01/69†	09/22/72
	REGULATION VIII - SAN DIEGO AIR POLLUTION EMERGENCY PLAN			
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		
REGULATION IX - PUBLIC RECORDS				
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
REGULATION XII - TOXIC AIR CONTAMINANTS				
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

REGULATION XIV - TITLE V OPERATING PERMITS				
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
REGULATION XV - FEDERAL CONFORMITY				
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(s)	Federal Delegation Date
Part 60	REGULATION X - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES		
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
J	Standards of Performance for Petroleum Refineries	Unknown	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
Part 61	REGULATION XI- NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS)		
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

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
DISTRICT RULES AND REGULATIONS APPENDIX A - CALIFORNIA AIRBORNE TOXIC CONTROL MEASURES (ATCM)			
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
DISTRICT RULES AND REGULATIONS APPENDIX B - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR SOURCE CATEGORIES			
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
CCCCC	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

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.

Subpart & Citation	RULE TITLE	Latest EPA Promulgation Date	District Adoption Date	Delegation Date
Part 60	DISTRICT RULES AND REGULATIONS APPENDIX C - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (NSPS)			
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.

Subpart & Citation	RULE TITLE	Latest EPA Promulgation Date	District Adoption Date	Delegation Date
Part 60				
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 ₂	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 _x	Oxides of nitrogen
O ₂	Oxygen
OES	Office of Environmental Services
O&M	Operation and maintenance
Pb	Lead
PM	Total Particulate Matter
PM ₁₀	Particulate matter with aerodynamic equivalent diameter of ≤ 10 microns
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SDCAPCD	San Diego County Air Pollution Control District
SIP	State Implementation Plan
SO _x	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