



San Diego County
**Air Pollution
Control District**

10124 Old Grove Rd. San Diego California 92131-1649
(858) 586-2600 Fax (858) 586-2601
www.sdapcd.org

**TITLE V OPERATING PERMIT
APCD2008-TVP-971535**

Issued To:

Minnesota Methane LLC
Site ID # APCD1996-SITE-09778

Site Address:

5244 Convoy Street
San Diego, CA 92111
(951) 833-4153

Mailing Address

One North. Lexington Avenue, 14th Floor
White Plains, NY 10601

Responsible Official – Suparna Chakladar

Facility Contact – Suparna Chakladar

Permit Information Contact – Suparna Chakladar

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

This Title V Operating Permit expires on _____.

Signed by:

Mohsen Nazemi, MS, PE.
Chief, Engineering Division
San Diego County Air Pollution Control District

Date

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PREAMBLE

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

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

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

SD Air Pollution Control District
10124 Old Grove Rd
San Diego, CA 92131-1649
(858) 586-2600

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:

<https://www.sdapcd.org/content/sdapcd/rules.html>

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
ECAD Attn: ENF 2-1
75 Hawthorne Street
San Francisco, CA 94105

SECTION I. REGULATION XIV PERMIT REQUIREMENTS

A. ADMINISTRATIVE PERMIT TERMS

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

B. RENEWAL REQUIREMENTS AND TERMS

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

C. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

1. The permittee shall provide the District access to the facility and all equipment subject to this permit, and access to all required records pursuant to California Health and Safety Code Section 41510. [Rule 1421]
2. The permittee shall maintain all records required by this permit including any calibration, maintenance, and other supporting information and copies of all reports required by this permit for at least five (5) years from their date of creation. Such records shall be maintained on-site for a minimum of three years. This requirement controls and supersedes any other record retention requirement under this permit as it pertains to, and is required by, District Rule 1421 and Title V of the Clean Air Act. [Rule 1421]
3. 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]
4. The permittee shall submit monitoring and recordkeeping summary reports and all other monitoring and recordkeeping reports required by this permit to the District every six months, unless a shorter time frame is required by a specific permit condition contained in Section III of this permit. Unless other dates are specified in Section III, reports for data required to be collected from January 1 through June 30, shall be submitted no later than September 1 of the calendar year, and reports for data required to be collected from July 1 through December 31, shall be submitted no later than March 1 of the following calendar year. The report for the final six months of the year may be consolidated with the annual compliance certification required below. All instances of noncompliance from federally enforceable applicable requirements shall be clearly identified in these reports. (Timely completion of District Certification Reports Form 1401-J1 and Form 1401-J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
5. Each calendar year, the permittee shall submit to the District and to the federal EPA an annual compliance certification, in a manner and form approved in writing by the District, for the previous calendar year that includes the identification of each applicable term or condition of the final permit for which the compliance status is being certified, the compliance status and whether the facility was in continuous or intermittent compliance during the previous calendar year, identification of the method used to determine compliance during the previous calendar year, and any other information required by the District to determine the compliance status. The annual compliance certification for a calendar year shall be submitted no later than March 1 of the following calendar year and may be consolidated with the monitoring and recordkeeping report for the last six months of the year for which compliance is certified. (Timely completion of District Certification Reports Form 1401-J1 and Form 1401-J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
6. 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]

7. 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]
8. 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 deviation and breakdown within two hours of detection of the breakdown and provide a follow-up written report after corrective actions have been taken. For deviations not due to a breakdown but which result in excess emissions, the permittee shall report the deviation within ten calendar days of detection. For all other deviations where no specific time frame for reporting a deviation applies, the permittee shall report the deviation at the time of the next semi-annual monitoring summary or annual compliance certification, whichever occurs first. If an underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, then the criteria for the applicable requirement shall apply. The report must include the probable cause of such deviations and any corrective actions or preventive measures taken. [Rule 1421]

D. GENERAL PERMIT REQUIREMENTS

1. The permittee shall comply with all terms and conditions of this permit. This permit consists of this document and Appendices A, B and C. Any noncompliance with the federally applicable terms and conditions of this permit shall constitute a violation of the federal Clean Air Act. Noncompliance with any federally applicable permit term or condition of this permit is grounds for federal enforcement action or enforcement action by the District; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Noncompliance with any District permit term or condition is grounds for enforcement action by the District. [Rule 1421]
2. Upon a written request by the District, the permittee shall furnish to the District any information needed to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit; any information required to determine compliance with this permit; or any records required to be maintained pursuant to this permit. Such information shall be provided within a reasonable time, as specified within the District's written request. [Rule 1421]
3. The permittee shall pay annual fees in accordance with District Rule 40. [Rule 1421]
4. The permittee shall provide access, facilities, utilities and any necessary safety equipment for source testing and inspection upon request from the District. [Rule 19]
5. This permit shall be maintained on-site at all times and be made available to the District upon request. [Rule 1410]

6. The Rule Reference Table provided in Appendix B shall be used to determine whether a cited rule is a federally and District enforceable requirement or a District only enforceable requirement. Any new or revised District rule shall not be considered federally enforceable until the rule is approved by EPA into the SIP. In cases where SIP approval is pending for a revised District rule, the rule citation shall refer to both the current SIP approved rule and the revised District rule. [Rule 1421]

SECTION II. FACILITY-WIDE REQUIREMENTS

A. GENERAL PERMIT PROGRAM APPLICABLE REQUIREMENTS

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

Regulation	Rule Citation	Title
SDCAPCD Reg. II	10(a) 10(b)	Permits Required – (a) Authority to Construct Permits Required – (b) Permit to Operate
SDCAPCD Reg. II	11	Exemptions
SDCAPCD Reg. II	19	Provision of Sampling & Testing Facilities
SDCAPCD Reg. II	19.3	Emission Information
SDCAPCD Reg. II	20	Standards for Granting Permits
SDCAPCD Reg. II	20.1	New Source Review
SDCAPCD Reg. II	20.3	New Source Review
SDCAPCD Reg. II	21	Permit Conditions
SDCAPCD Reg. II	24	Temporary Permit to Operate
SDCAPCD Reg. II	25	Appeals
SDCAPCD Reg. IV	60	Circumvention
SDCAPCD Reg. V	98*	Breakdown Conditions: Emergency Variance
SDCAPCD Reg. VI	101	Burning Control
SDCAPCD Reg. VIII	131	Stationary Source Curtailment Plan
SDCAPCD Reg. VIII	134	Source Inspection
40 CFR Part 82	Subpart F	Servicing of Other Air Conditioners

**Breakdowns/variances are not recognized by EPA and cannot grant relief from federal enforcement of requirements.*

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 Air Contaminants
SDCAPCD Reg. IV	54	Dust and Fumes
SDCAPCD Reg. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. IV	67.0.1	Architectural Coatings
SDCAPCD Reg. IV	67.17	Storage of Materials Containing VOC
SDCAPCD Reg. IV	67.6	Solvent Cleaning Operation
SDCAPCD Reg. IV	68	Fuel Burning Equipment - NOx
SDCAPCD Reg. X	40 CFR 60 Subpart XXX, JJJJ****	NSPS
SDCAPCD Reg. XI	40 CFR 63 Subpart AAAA, ZZZZ****	NESHAP
SDCAPCD Reg. XII	1200**	Toxic Air Contaminants – New Source Review
SDCAPCD Reg. XII	1206***	Asbestos Removal, Renovation, and Demolition
40 CFR Part 60	Subpart A****	NSPS – General Provisions
40 CFR Part 61	Subpart M****	NESHAP – Asbestos
40 CFR Part 63	Subpart A****	NESHAP – General Provisions

***Not federally enforceable.*

****The District issued its own Asbestos Rule 1206 intended to be as stringent as Subpart M. The facility is subject to the most stringent requirements of either rule, which at the time of this report is ensured by compliance with rule 1206.*

*****The District has adopted these rules by reference; however, any changes made to these regulations at the federal level are not immediately adopted. In the event this creates a conflict between the District adopted and federal rules, the more stringent requirements will apply.*

C. PERMIT SHIELDS

The permittee has not requested any permit shields.

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]

SECTION III. EMISSION UNIT REQUIREMENTS

A. EMISSION UNITS

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

EU Reference	Source
APCD2006-PTO-950731	IC Engine Plant
APCD2013-PTO-001632	IC Engine
APCD2013-PTO-001633	IC Engine

B. REGISTERED AND LEASED EMISSION UNITS

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

Regulation	Rule Citation	Title
SDCAPCD Reg. II	19.2	Continuous Emission Monitoring Requirements
SDCAPCD Reg. II	Rule 20.3	New Source Review
SDCAPCD Reg. IV	52	Particulate Matter
SDCAPCD Reg. IV	53	Specific Contaminants
SDCAPCD Reg. IV	54	Dust and Fumes
SDCAPCD Reg. IV	62	Sulfur Content of Fuels

C. INSIGNIFICANT EMISSION UNITS AND ACTIVITIES

The permittee shall comply with the applicable requirements specified in the District Rules and Regulations for any Insignificant Units located at this facility that are listed at District Regulation XIV, Appendix-A (no insignificant units were listed in the permittee's application).

D. LANDFILL GAS TREATMENT SYSTEM

1. The landfill gas treatment system and combustion equipment shall be in operation at all times when collected gas is routed to the system. [40 CFR 63.1958(f); 40 CFR60.763(f)]
2. Landfill gas shall be routed to a treatment system that processes the collected gas for use as fuel for combustion. Venting treated landfill gas to the ambient air is not allowed. In the event that the engines are inoperable, no landfill gas shall be routed to the treatment system. [40 CFR 63.1959(b)(2)(iii)(C); 40 CFR 60.762(b)(2)(iii)]
3. The owner or operator shall calibrate, maintain, and operate according the manufacturer's specifications a device that records flow to the treatment system at least every 15 minutes. The owner or operator shall maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific monitoring plan required in section 63.1983(b)(5)(ii). These requirements do

not apply during monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities, as outlined in 40 CFR 63.1961(h).

4. The bypass line valve shall be secured in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 cfr 63.1961(g); 40 cfr 60.766(g)].
5. The owner or operator shall keep up-to-date, readily accessible records for the following:
 - (a) gas treatment system vendor specifications;
 - (b) records of the flow of landfill gas to, and bypass of, the treatment system;
 - (c) site-specific treatment monitoring plan, including:
 - (i) monitoring records of parameters identified in the treatment system monitoring plan and that ensure the treatment system is operating properly, including records of filtration, de-watering, and compression parameters that ensure the treatment system is operating properly;
 - (ii) monitoring methods, frequencies, and operating ranges for each monitored operating parameter based on manufacturer's recommendations or engineering analysis;
 - (iii) documentation of the monitoring methods and ranges, along with justification for their use;
 - (iv) list of responsible staff (by job title) for data collection;
 - (v) processes and methods used to collect the necessary data; and
 - (vi) description of the procedures and methods that are used for quality assurance, maintenance, and repair of all continuous monitoring systems.

[40 CFR 63.1983(b)(5); 40 CFR60.768(b)(5)].

SECTION IV. DISTRICT-ONLY PROVISIONS

VARIANCE PROCEDURES

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

SECTION V. APPENDICES

APPENDIX A: EMISSION UNITS – SPECIFIC CONDITIONS

EU Reference	Source
APCD2006-PTO-950731	IC Engine Plant
APCD2013-PTO-001632	IC Engine
APCD2013-PTO-001633	IC Engine



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App ID: APCD2018-APP-005425

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MM San Diego LLC - Miramar & Mirama
 Suparna Chakladar
 One North Lexington Avenue, 14th Floor
 White Plains NY, 10601

EQUIPMENT ADDRESS
 MM San Diego LLC - Miramar &
 Suparna Chakladar
 5244 Convoy Street
 San Diego CA 92111

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

MM San Diego LLC - Miramar & Miramar Energy Suparna Chakladar One North Lexington Avenue, 14th Floor, White Plains, NY 10601

EQUIPMENT DESCRIPTION

Electrical generation plant consisting of four engine-generation sets, each formed by two identical engines driving a generator:
 Mfr: Caterpillar engines,
 Model G3516SITA,
 each engine rated at 1138 BHP,
 equipped with turbocharger, lean burn, air/fuel ratio controller,
 fueled with landfill gas and digester gas, with natural gas as supplemental fuel.

The four engine-generator sets are identified by the following serial numbers:
 Engine 1: 4EK01636, Engine 2: 4EK01647, Generator: MM00509 at 1600 kW;
 Engine 3: 4EK00795, Engine 4: 4EK01194, Generator: 12389-02 at 1900 kW;
 Engine 5: 4EK01196, Engine 6: 4EKO1195, Generator: 12389-03 at 1900 KW;
 Engine 7: 4EK01192, Engine 8: 4EK01193, Generator: 12321-05 at 1900 kW

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)
 4 [34B] Cogeneration Engine
 4 [34B] Cogeneration Engine

BEC: APCD2015-CON-001124

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



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A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. Emissions of Oxide of Nitrogen (NOx) in the engine exhaust shall not exceed 1.2 grams per brake horsepower-hour. [Rule 20.3]
2. Emissions of Carbon Monoxide (CO) in the engine exhaust shall not exceed 2.6 grams per brake horsepower-hour. [Rule 20.3]
3. The engine must comply with the following emission limits of Rule 69.4.1 subsection (d)(1)(ii)(A):
 - a. NOx (Oxides of Nitrogen): 65 ppmvd corrected to 15% O₂
 - b. CO (Carbon Monoxide): 2,000 ppmvd corrected to 15% O₂

Compliance may also be shown by a source test or using a handheld portable analyzer in accordance with Rule 69.4.1(e) (5) and 69.4.1(g)(8) in quarters in which a source test is not conducted.

[Rule 69.4.1(d)(1)(ii)(A) – lean-burn]
4. Emissions of Non-Methane Hydrocarbon (NMHC) in the engine exhaust shall not exceed 0.75 grams per brake horsepower-hour. [Rule 20.3]
5. Natural gas usage for the system shall not exceed 156 million standard cubic feet per year. Records demonstrating compliance with this limit shall be maintained on site for at least five years and made available for inspection by the District upon request. [Rule 20.3]
6. The annual heat input from the combustion of landfill gas shall be equivalent to 10% or more of the total annual gross heat input to this equipment. [40 CFR 63.6590(b)(3)(v)]
7. The Sulfur content of any gaseous fuel burned shall not exceed 0.05% by weight. [Rule 20.3]
8. Emissions of combustion particulates shall not exceed 0.10 grains per dry standard cubic foot of gas standardized to 12 percent carbon dioxide by volume. [Rule 53]
9. Particulate Emissions shall be measured in accordance with District Method 5. [Rule 53, Rule 21]
10. The Sulfur content of fuel shall be measured in accordance with ASTM Test Method D-3246. [Rule 20.3, Rule 21]
11. The air to fuel ratio controller and the oxygen sensor shall be inspected, calibrated or replaced per Caterpillar guidelines during scheduled maintenance periods. These scheduled maintenance periods shall occur every 30 to 60 days, and shall not extend beyond 60 days between periods. Records of the dates of maintenance performance, of inspection, calibration, replacement shall be maintained on site for at least 5 years and made available for inspection by the District upon request. [Rule 69.4.1]
12. A non-resettable engine hour meter and/or non-resettable totalizing fuel 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 in 10 calendar days. The written notifications shall include the following information:
 - a. old meter's reading.
 - b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
 - c. copy of receipt of new meter or of installation work order.

A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)



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13. The owner or operator of this engine shall conduct annual 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.

[Rule 69.4.1(f)(2)]

14. All equipment shall be kept in good operating conditions and shall be properly maintained in accordance with the manual of recommended maintenance provided by the engine manufacturer. The manual shall be kept on site. [Rule 69.4.1, Rule 21]

15. The owner or operator shall have a trained operator use a portable analyzer to take NO_x and CO emission readings to verify compliance with the applicable emissions standards of Rule 69.4.1 Subsection (d)(1) during any calendar quarter in which a source test is not performed. All readings shall comply with the following:

i. All readings shall be taken with the engine operating either at the highest achievable continuous brake horsepower rating, or under the typical duty cycle or operational mode of the engine.

ii. Emission readings shall be averaged over a consecutive 15-minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five readings evenly spaced out over the 15 consecutive minute period.

iii. At least 6 calendar weeks shall separate the date of the last emission reading taken or source test conducted in the previous calendar quarter and the first emission reading taken in the subsequent calendar quarter in which a source test is not performed.

iv. If this engine is found to exceed the applicable NO_x (oxides of nitrogen) and/or CO (carbon monoxide) emission standards of Rule 69.4.1(d)(1) with a portable analyzer, the owner or operator shall bring the engine into compliance within 20 calendar days of the initial out-of-compliance reading. If the engine is not brought into compliance of Rule 69.4.1(d)(1) within 20 calendar days, the exceedance shall be considered a violation of 69.4.1(d)(1).

v. A trained operator is a person who has completed an appropriate South Coast Air Quality Management District (SCAQMD) approved training program in the operation of portable analyzers and has received a certification issued by SCAQMD. A copy of the certification shall be maintained on site and made available to the District upon request.

[Rule 69.4.1(e)(5)]



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16. The owner or operator using a portable analyzer shall record and maintain all emission readings, the dates and times of when the readings were recorded, maintain records of all calibrations, including relative accuracy during calibration, and maintenance of any portable analyzer use, maintain a manual of recommended calibration, maintenance and operation as provided by the manufacturer, and provide written notification to the Air Pollution Control Officer within 2 business days of a reading that exceeds the emission standards.
 [Rule 69.4.1(g)(8)]
17. The owner or operator of the engine shall maintain records of annual engine maintenance, including dates maintenance was performed and the nature of the maintenance.
 [Rule 69.4.1(g)(3)(ii)]
18. The following records shall be recorded monthly, maintained on site for a minimum of five years and made available to District personnel upon request:
 - a. monthly landfill gas usage, standard cubic feet;
 - b. average monthly landfill gas heating value, Btu per cubic feet;
 - c. percentage of gross heat input to this equipment from the combustion of landfill gas.
 [40 CFR 63.6590(b)(3)(v)]
19. The permittee shall submit an application and obtain written authorization from the District before altering any portion of the system in a manner which may affect emissions from the facility, except for necessary repair, maintenance and identical replacement. [Rule 10]
20. 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]
21. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year. [Rule 20.3, Rule 21]
22. If requested by the District or EPA, testing for particulate emissions and/or fuel sulfur content shall be performed to demonstrate compliance with the emission standards contained in this permit. [Rule 20.3, Rule 21]
23. Source Testing test method:
 Concentrations of NOx, CO and O2 in the exhaust shall be measured in accordance with SDC APCD Test Method 100.
 [Rule 69.4.1(h)(1)(i)]
24. Source Testing test method:
 Concentrations of NMHC in the exhaust shall be measured in accordance with SDC APCD Test Methods 25A and/or 18.
 [Rule 69.4.1(h)(1)(ii)]
39. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

25. The engine(s) covered by this permit is considered a control device and the landfill gas duct leading to the engine is considered a collection device in accordance with Title 17 California Code of Regulations (CCR) Division 3, Chapter 1, Subchapter 10, Article 4, SUBARTICLE 6. METHANE EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS, and are therefore subject to applicable requirements from this regulation which include, but may not be limited to, the following conditions.
26. This engine must achieve a methane destruction efficiency of at least 99 percent by weight. Lean burn internal combustion engines must reduce the outlet methane concentration to less than 3,000 ppmv, dry basis, corrected to 15 percent oxygen.
 [17 CCR 95464(b)(3)(A)]



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27. There shall be no leaks of landfill gas from the collection system and along the gas transfer path in excess of 500 ppmv (as methane) measured at a distance of 1/2 inches from the transfer path other than non-repeatable momentary readings.
[17 CCR § 95464(b)(1)(B) and the definition of component leak at § 95475(a)(2)]
28. In the event that the gas collection system or the engines are inoperable, all valves which vent landfill gas to atmosphere shall be closed within 1 hour. The permittee shall maintain records of these valve closures including the time the system or engines become inoperable and the time of valve closure on-site for five years and make them available to the District upon request. [17 CCR §95464(b)(3)(B)]
29. Components containing landfill gas and under positive pressure must be monitored quarterly for leaks. Any component leak must be tagged and repaired within 10 calendar days, or it is a violation of this subarticle. Component leak testing at MSW landfills having landfill gas-to-energy facilities may be conducted prior to scheduled maintenance or planned outage periods.
[17 CCR § 95469(b)(3)]
30. Recordkeeping - five year retention: In addition to any other records required by this permit, the owner or operator of any gas control device must maintain the following records for at least five (5) years:
 - a. All gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown.
 - b. Results of any source tests conducted pursuant to section 95464(b)(4).
 - c. Records of the equipment operating parameters specified to be monitored under sections 95469(b)(1) and 95469(b)(2) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information:
[17 CCR § 95470(a)(1)]
31. Recordkeeping - retention for life of control device: The owner or operator of any gas control device must maintain the following records for the life of each gas control device:
 - a. The control device vendor specifications.
 - b. The expected gas generation flow rate as calculated pursuant to section 95471(e).
 - c. The percent reduction of methane achieved by the control device determined pursuant to section 95471(f).
[17 CCR § 95470(a)(2)]
32. By December 31, 2026, the Permittee shall submit Authority to Construct applications to the District to install the selected controls (which would include controls such as the use of oxidation catalyst with or without chillers) on the engines. These applications shall be complete and include the proposed control efficiency and/or toxic air contaminant emission rates, along with a demonstration that the controls will reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
33. Within 12 months after the issuance of the Authority to Construct to install the controls, the Permittee shall have the controls installed on the engines and begin operating the controls. [Rule 1210]
34. Within 60 days of startup, the Permittee shall conduct source tests using test methods approved by the District to determine if the engines meet the required control efficiency and/or toxic air contaminant emission rate. Such testing shall be performed or witnessed by the District and conducted at the permit holder's expense. If testing will be conducted by a 3rd party, a source test protocol and stack diagram showing locations of ports and other relevant information must be submitted to the District for review and approval no later than 30 days prior to the proposed test date. This testing shall be performed within at least 80% of maximum engine load or an alternative load that is representative of normal operation and approved in writing by the District. [Rule 1210]
35. Within 60 days of completion of the source test the Permittee shall submit source test report(s) to the District and demonstrate to the District that the acute and worker chronic health hazard indices have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule 1210]



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36. If the source test results show that the acute and worker chronic health hazard indices have not been reduced below the Rule 1210 Significant Risk Thresholds, the Permittee shall within 60 days of submitting the source test results, or another date, as requested by the District, submit an application to revise the risk reduction plan to demonstrate how the Permittee will reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
37. By November 1, 2029, the Permittee shall reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds, unless an extension has been granted by the District as allowed by Rule 1210(e)(1) pursuant to provisions of Subsections (e)(4) or (e)(5) of Rule 1210. [Rule 1210]
38. Permittee shall submit quarterly progress reports to the District for each calendar year quarter, starting with the first calendar year quarter of 2025, with the report due no later than 30 days after the end of each quarter, until the controls have been installed, in operation and demonstrated to the District that the acute and worker chronic health hazard indices have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule1210]
40. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
41. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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MM San Diego LLC - Miramar & Mirama
 Suparna Chakladar
 One North Lexington Avenue, 14th Floor
 White Plains NY, 10601

EQUIPMENT ADDRESS
 Minnesota Methane LLC San
 Robert Smith Jr
 5244 Convoy St
 San Diego CA 92111

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

MM San Diego LLC - Miramar & Miramar Energy Suparna Chakladar One North Lexington Avenue, 14th Floor, White Plains, NY 10601

EQUIPMENT DESCRIPTION

Engine #1: Caterpillar, Model 3520, 2233 BHP, landfill gas fired, lean burn, turbocharged, aftercooled, S/N GZJ00529; with an air/fuel ratio controller.

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 [34B] Cogeneration Engine

BEC: APCD2013-CON-000658

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. The emissions of oxides of nitrogen (NOx), calculated as nitrogen dioxide, from the engine exhaust shall not exceed 0.5 g/BHP-hr. [Rule 20.3]
2. The emissions of carbon monoxide (CO) from the engine exhaust shall not exceed 3.6 g/BHP-hr. [Rule 20.3]
3. The engine must comply with the following emission limits of Rule 69.4.1 subsection (d)(1)(ii)(A):
 - a. NOx (Oxides of Nitrogen): 65 ppmvd corrected to 15% O2
 - b. CO (Carbon Monoxide): 2,000 ppmvd corrected to 15% O2

Compliance may also be shown by a source test or using a handheld portable analyzer in accordance with Rule 69.4.1(e) (5) and 69.4.1(g)(8) in quarters in which a source test is not conducted.

[Rule 69.4.1(d)(1)(ii)(A) – lean-burn]



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4. The emissions of volatile organic compounds (VOC), calculated as methane, from the engine exhaust shall not exceed 0.1 g/BHP-hr. [Rule 20.3]
5. In addition to the annual source test required to demonstrate compliance with the emission limits of this permit, the equipment shall be tested at least once every 8,760 hours of operation or every 3 years, whichever comes first for compliance with the applicable emission limits of Table 1 to 40 CFR 60 Subpart JJJJ. Compliance may be shown with either the mass based limits of 2.0, 5.0 and 1.0 g/bhp-hr NOx, CO and VOC respectively, or the concentration based limits of 150, 610 and 80 ppmvd corrected to 15 percent oxygen for NOx, CO and VOC respectively. This testing shall be performed according to all methods and procedures of Table 2 of Subpart JJJJ.
6. This engine shall combust treated landfill gas only. [40 CFR 63.6590(b)(2)]
7. A non-resettable engine hour meter and/or non-resettable totalizing fuel 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 in 10 calendar days. The written notifications shall include the following information:
 - a. old meter's reading.
 - b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
 - c. copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)
8. The owner or operator of this engine shall conduct annual 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.
[Rule 69.4.1(f)(2)]



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9. The owner or operator shall have a trained operator use a portable analyzer to take NO_x and CO emission readings to verify compliance with the applicable emissions standards of Rule 69.4.1 Subsection (d)(1) during any calendar quarter in which a source test is not performed. All readings shall comply with the following:
- i. All readings shall be taken with the engine operating either at the highest achievable continuous brake horsepower rating, or under the typical duty cycle or operational mode of the engine.
 - ii. Emission readings shall be averaged over a consecutive 15-minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five readings evenly spaced out over the 15 consecutive minute period.
 - iii. At least 6 calendar weeks shall separate the date of the last emission reading taken or source test conducted in the previous calendar quarter and the first emission reading taken in the subsequent calendar quarter in which a source test is not performed.
 - iv. If this engine is found to exceed the applicable NO_x (oxides of nitrogen) and/or CO (carbon monoxide) emission standards of Rule 69.4.1(d)(1) with a portable analyzer, the owner or operator shall bring the engine into compliance within 20 calendar days of the initial out-of-compliance reading. If the engine is not brought into compliance of Rule 69.4.1(d)(1) within 20 calendar days, the exceedance shall be considered a violation of 69.4.1(d)(1).
 - v. A trained operator is a person who has completed an appropriate South Coast Air Quality Management District (SCAQMD) approved training program in the operation of portable analyzers and has received a certification issued by SCAQMD. A copy of the certification shall be maintained on site and made available to the District upon request.
- [Rule 69.4.1(e)(5)]
10. The owner or operator using a portable analyzer shall record and maintain all emission readings, the dates and times of when the readings were recorded, maintain records of all calibrations, including relative accuracy during calibration, and maintenance of any portable analyzer use, maintain a manual of recommended calibration, maintenance and operation as provided by the manufacturer, and provide written notification to the Air Pollution Control Officer within 2 business days of a reading that exceeds the emission standards.
[Rule 69.4.1(g)(8)]
11. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below. [Rule 10]
12. This equipment shall be properly maintained and kept in good operating condition at all times. [Rule 20.3]
13. The engine landfill gas fuel flow meter and flow rate recording equipment shall be operational and calibrated in accordance with manufacturers specifications at least once every six (6) months to verify that an accurate reading of plus or minus five (5) percent is being maintained. [Rule 21]
14. The owner or operator of the engine shall maintain a manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company on site for at least the same period of time as the engine to which the records apply is located at the site. [Rule 69.4.1]
15. The owner or operator of the engine shall maintain records of annual engine maintenance, including dates maintenance was performed and the nature of the maintenance.
[Rule 69.4.1(g)(3)(ii)]
16. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year. [Rule 20.3, Rule 21]



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- 17. 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]
- 31. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

- 18. The engine(s) covered by this permit is considered a control device and the landfill gas duct leading to the engine is considered a collection device in accordance with Title 17 California Code of Regulations (CCR) Division 3, Chapter 1, Subchapter 10, Article 4, SUBARTICLE 6. METHANE EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS, and are therefore subject to applicable requirements from this regulation which include, but may not be limited to, the following conditions.
- 19. This engine must achieve a methane destruction efficiency of at least 99 percent by weight. Lean burn internal combustion engines must reduce the outlet methane concentration to less than 3,000 ppmv, dry basis, corrected to 15 percent oxygen.
[17 CCR 95464(b)(3)(A)]
- 20. There shall be no leaks of landfill gas from the collection system and along the gas transfer path in excess of 500 ppmv (as methane) measured at a distance of 1/2 inches from the transfer path other than non-repeatable momentary readings.
[17 CCR § 95464(b)(1)(B) and the definition of component leak at § 95475(b)]
- 21. Components containing landfill gas and under positive pressure must be monitored quarterly for leaks. Any component leak must be tagged and repaired within 10 calendar days, or it is a violation of this subarticle. Component leak testing at MSW landfills having landfill gas-to-energy facilities may be conducted prior to scheduled maintenance or planned outage periods.
[17 CCR § 95469(b)(3)]
- 22. Recordkeeping - five year retention: In addition to any other records required by this permit, the owner or operator of any gas control device must maintain the following records for at least five (5) years:
 - a. All gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown.
 - b. Results of any source tests conducted pursuant to section 95464(b)(4).
 - c. Records of the equipment operating parameters specified to be monitored under sections 95469(b)(1) and 95469(b)(2) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information:
[17 CCR § 95470(a)(1)]
- 23. Recordkeeping - retention for life of control device: The owner or operator of any gas control device must maintain the following records for the life of each gas control device:
 - a. The control device vendor specifications.
 - b. The expected gas generation flow rate as calculated pursuant to section 95471(e).
 - c. The percent reduction of methane achieved by the control device determined pursuant to section 95471(f).
[17 CCR § 95470(a)(2)]
- 24. By December 31, 2026, the Permittee shall submit Authority to Construct applications to the District to install the selected controls (which would include controls such as the use of oxidation catalyst with or without chillers) on the engines. These applications shall be complete and include the proposed control efficiency and/or toxic air contaminant emission rates, along with a demonstration that the controls will reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
- 25. Within 12 months after the issuance of the Authority to Construct to install the controls, the Permittee shall have the controls installed on the engines and begin operating the controls. [Rule 1210]



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26. Within 60 days of startup, the Permittee shall conduct source tests using test methods approved by the District to determine if the engines meet the required control efficiency and/or toxic air contaminant emission rate. Such testing shall be performed or witnessed by the District and conducted at the permit holder's expense. If testing will be conducted by a 3rd party, a source test protocol and stack diagram showing locations of ports and other relevant information must be submitted to the District for review and approval no later than 30 days prior to the proposed test date. This testing shall be performed within at least 80% of maximum engine load or an alternative load that is representative of normal operation and approved in writing by the District. [Rule 1210]
27. Within 60 days of completion of the source test the Permittee shall submit source test report(s) to the District and demonstrate to the District that the acute and worker chronic health hazard indices have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
28. If the source test results show that the acute and worker chronic health hazard indices have not been reduced below the Rule 1210 Significant Risk Thresholds, the Permittee shall within 60 days of submitting the source test results, or another date, as requested by the District, submit an application to revise the risk reduction plan to demonstrate how the Permittee will reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
29. By November 1, 2029, the Permittee shall reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds, unless an extension has been granted by the District as allowed by Rule 1210(e)(1) pursuant to provisions of Subsections (e)(4) or (e)(5) of Rule 1210. [Rule 1210]
30. Permittee shall submit quarterly progress reports to the District for each calendar year quarter, starting with the first calendar year quarter of 2025, with the report due no later than 30 days after the end of each quarter, until the controls have been installed, in operation and demonstrated to the District that the acute and worker chronic health hazard indices have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule1210]
32. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
33. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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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

MM San Diego LLC - Miramar & Miramar Energy Suparna Chakladar One North Lexington Avenue, 14th Floor, White Plains, NY 10601

EQUIPMENT DESCRIPTION

Engine #2: Caterpillar, Model 3520, 2233 BHP, landfill gas fired, lean burn, turbocharged, aftercooled, S/N GZJ00528; with an air/fuel ratio controller.

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 [34B] Cogeneration Engine

BEC: APCD2013-CON-000658

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. The emissions of oxides of nitrogen (NOx), calculated as nitrogen dioxide, from the engine exhaust shall not exceed 0.5 g/BHP-hr. [Rule 20.3]
2. The emissions of carbon monoxide (CO) from the engine exhaust shall not exceed 3.6 g/BHP-hr. [Rule 20.3]
3. The engine must comply with the following emission limits of Rule 69.4.1 subsection (d)(1)(ii)(A):
 - a. NOx (Oxides of Nitrogen): 65 ppmvd corrected to 15% O2
 - b. CO (Carbon Monoxide): 2,000 ppmvd corrected to 15% O2

Compliance may also be shown by a source test or using a handheld portable analyzer in accordance with Rule 69.4.1(e) (5) and 69.4.1(g)(8) in quarters in which a source test is not conducted.

[Rule 69.4.1(d)(1)(ii)(A) – lean-burn]



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4. The emissions of volatile organic compounds (VOC), calculated as methane, from the engine exhaust shall not exceed 0.1 g/BHP-hr. [Rule 20.3]
5. In addition to the annual source test required to demonstrate compliance with the emission limits of this permit, the equipment shall be tested at least once every 8,760 hours of operation or every 3 years, whichever comes first for compliance with the applicable emission limits of Table 1 to 40 CFR 60 Subpart JJJJ. Compliance may be shown with either the mass based limits of 2.0, 5.0 and 1.0 g/bhp-hr NOx, CO and VOC respectively, or the concentration based limits of 150, 610 and 80 ppmvd corrected to 15 percent oxygen for NOx, CO and VOC respectively. This testing shall be performed according to all methods and procedures of Table 2 of Subpart JJJJ.
6. This engine shall combust treated landfill gas only. [40 CFR 63.6590(b)(2)]
7. A non-resettable engine hour meter and/or non-resettable totalizing fuel 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 in 10 calendar days. The written notifications shall include the following information:
 - a. old meter's reading.
 - b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
 - c. copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)
8. The owner or operator of this engine shall conduct annual 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.
[Rule 69.4.1(f)(2)]



COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131-1649
PHONE (858) 586-2600 Fax (858) 586-2601
www.sdapcd.org

Sectors: 4, M
Site ID: APCD1996-SITE-09778
App ID: APCD2018-APP-005425

PERMIT ID
APCD2013-PTO-001633


9. The owner or operator shall have a trained operator use a portable analyzer to take NO_x and CO emission readings to verify compliance with the applicable emissions standards of Rule 69.4.1 Subsection (d)(1) during any calendar quarter in which a source test is not performed. All readings shall comply with the following:
- i. All readings shall be taken with the engine operating either at the highest achievable continuous brake horsepower rating, or under the typical duty cycle or operational mode of the engine.
 - ii. Emission readings shall be averaged over a consecutive 15-minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five readings evenly spaced out over the 15 consecutive minute period.
 - iii. At least 6 calendar weeks shall separate the date of the last emission reading taken or source test conducted in the previous calendar quarter and the first emission reading taken in the subsequent calendar quarter in which a source test is not performed.
 - iv. If this engine is found to exceed the applicable NO_x (oxides of nitrogen) and/or CO (carbon monoxide) emission standards of Rule 69.4.1(d)(1) with a portable analyzer, the owner or operator shall bring the engine into compliance within 20 calendar days of the initial out-of-compliance reading. If the engine is not brought into compliance of Rule 69.4.1(d)(1) within 20 calendar days, the exceedance shall be considered a violation of 69.4.1(d)(1).
 - v. A trained operator is a person who has completed an appropriate South Coast Air Quality Management District (SCAQMD) approved training program in the operation of portable analyzers and has received a certification issued by SCAQMD. A copy of the certification shall be maintained on site and made available to the District upon request.
- [Rule 69.4.1(e)(5)]
10. The owner or operator using a portable analyzer shall record and maintain all emission readings, the dates and times of when the readings were recorded, maintain records of all calibrations, including relative accuracy during calibration, and maintenance of any portable analyzer use, maintain a manual of recommended calibration, maintenance and operation as provided by the manufacturer, and provide written notification to the Air Pollution Control Officer within 2 business days of a reading that exceeds the emission standards.
[Rule 69.4.1(g)(8)]
11. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below. [Rule 10]
12. This equipment shall be properly maintained and kept in good operating condition at all times. [Rule 20.3]
13. The engine landfill gas fuel flow meter and flow rate recording equipment shall be operational and calibrated in accordance with manufacturers specifications at least once every six (6) months to verify that an accurate reading of plus or minus five (5) percent is being maintained. [Rule 21]
14. The owner or operator of the engine shall maintain a manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company on site for at least the same period of time as the engine to which the records apply is located at the site. [Rule 69.4.1]
15. The owner or operator of the engine shall maintain records of annual engine maintenance, including dates maintenance was performed and the nature of the maintenance.
[Rule 69.4.1(g)(3)(ii)]
16. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year. [Rule 20.3, Rule 21]



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- 17. 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]
- 31. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

- 18. The engine(s) covered by this permit is considered a control device and the landfill gas duct leading to the engine is considered a collection device in accordance with Title 17 California Code of Regulations (CCR) Division 3, Chapter 1, Subchapter 10, Article 4, SUBARTICLE 6. METHANE EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS, and are therefore subject to applicable requirements from this regulation which include, but may not be limited to, the following conditions.
- 19. This engine must achieve a methane destruction efficiency of at least 99 percent by weight. Lean burn internal combustion engines must reduce the outlet methane concentration to less than 3,000 ppmv, dry basis, corrected to 15 percent oxygen.
[17 CCR 95464(b)(3)(A)]
- 20. There shall be no leaks of landfill gas from the collection system and along the gas transfer path in excess of 500 ppmv (as methane) measured at a distance of 1/2 inches from the transfer path other than non-repeatable momentary readings.
[17 CCR § 95464(b)(1)(B) and the definition of component leak at § 95475(b)]
- 21. Components containing landfill gas and under positive pressure must be monitored quarterly for leaks. Any component leak must be tagged and repaired within 10 calendar days, or it is a violation of this subarticle. Component leak testing at MSW landfills having landfill gas-to-energy facilities may be conducted prior to scheduled maintenance or planned outage periods.
[17 CCR § 95469(b)(3)]
- 22. Recordkeeping - five year retention: In addition to any other records required by this permit, the owner or operator of any gas control device must maintain the following records for at least five (5) years:
 - a. All gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown.
 - b. Results of any source tests conducted pursuant to section 95464(b)(4).
 - c. Records of the equipment operating parameters specified to be monitored under sections 95469(b)(1) and 95469(b)(2) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information:
[17 CCR § 95470(a)(1)]
- 23. Recordkeeping - retention for life of control device: The owner or operator of any gas control device must maintain the following records for the life of each gas control device:
 - a. The control device vendor specifications.
 - b. The expected gas generation flow rate as calculated pursuant to section 95471(e).
 - c. The percent reduction of methane achieved by the control device determined pursuant to section 95471(f).
[17 CCR § 95470(a)(2)]
- 24. By December 31, 2026, the Permittee shall submit Authority to Construct applications to the District to install the selected controls (which would include controls such as the use of oxidation catalyst with or without chillers) on the engines. These applications shall be complete and include the proposed control efficiency and/or toxic air contaminant emission rates, along with a demonstration that the controls will reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
- 25. Within 12 months after the issuance of the Authority to Construct to install the controls, the Permittee shall have the controls installed on the engines and begin operating the controls. [Rule 1210]



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26. Within 60 days of startup, the Permittee shall conduct source tests using test methods approved by the District to determine if the engines meet the required control efficiency and/or toxic air contaminant emission rate. Such testing shall be performed or witnessed by the District and conducted at the permit holder's expense. If testing will be conducted by a 3rd party, a source test protocol and stack diagram showing locations of ports and other relevant information must be submitted to the District for review and approval no later than 30 days prior to the proposed test date. This testing shall be performed within at least 80% of maximum engine load or an alternative load that is representative of normal operation and approved in writing by the District. [Rule 1210]
27. Within 60 days of completion of the source test the Permittee shall submit source test report(s) to the District and demonstrate to the District that the acute and worker chronic health hazard indices have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
28. If the source test results show that the acute and worker chronic health hazard indices have not been reduced below the Rule 1210 Significant Risk Thresholds, the Permittee shall within 60 days of submitting the source test results, or another date, as requested by the District, submit an application to revise the risk reduction plan to demonstrate how the Permittee will reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
29. By November 1, 2029, the Permittee shall reduce the acute and worker chronic health hazard indices below the Rule 1210 Significant Risk Thresholds, unless an extension has been granted by the District as allowed by Rule 1210(e)(1) pursuant to provisions of Subsections (e)(4) or (e)(5) of Rule 1210. [Rule 1210]
30. Permittee shall submit quarterly progress reports to the District for each calendar year quarter, starting with the first calendar year quarter of 2025, with the report due no later than 30 days after the end of each quarter, until the controls have been installed, in operation and demonstrated to the District that the acute and worker chronic health hazard indices have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule1210]
32. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
33. 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	7/11/17	11/12/20
4	Review of Rules	F	01/01/70 [†]	09/22/72
5	Authority to Arrest	F	03/24/76 [†]	NA
6	Minor Violations	D	12/15/99	N/A
	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	F D	07/08/20 10/13/22	10/28/22 Pending
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	09/18/90	N/A
17	Cancellation of Applications	F	04/06/93	03/11/98
18	Action on Applications	D	09/18/90	N/A
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 D	01/12/79 10/12/23	09/28/81 Pending
19.3	Emission Information	F D	05/15/96 12/09/21	03/09/00 Pending
20	Standards for Granting Permits	F	04/25/89	10/04/18
20.1	NSR - General Provisions	F	10/14/21	09/28/22
20.2*	NSR - Non-major Stationary Sources	F	06/26/19	09/16/20
20.3*	NSR - Major Stationary Source and PSD Stationary Source	F	10/14/21	09/28/22
20.4*	NSR - Portable Emission Units	F	10/14/21	09/28/22
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	01/01/69 [†]	N/A
23	Further Information	D	01/01/69 [†]	N/A
24	Temporary Permit to Operate	F	06/29/16	10/04/18
25	Appeals	F	01/01/69 [†]	09/22/72
25	Appeals	D	06/21/00	N/A

26.0	Banking of Emission Reduction Credits (ERCs) - General Requirements	D	06/26/19	N/A
26.1	Standards for Granting Emission Reduction Credits (ERCs)	D	10/22/97	N/A
26.2	Use of Emission Reduction Credits (ERCs)	D	10/22/97	N/A
26.3	Reclassification of Class B Emission Reduction Credits (ERCs)	D	10/22/97	N/A
26.4	Permanency of Banked Emission Reduction Credits (ERCs)	D	10/22/97	N/A
26.5	Transfer of Emission Reduction Credits (ERCs)	D	10/22/97	N/A
26.6	District Banking of Emission Reduction Credits (ERCs)	D	10/22/97	N/A
26.7	Shutdown and Related Emission Unit	D	10/22/97	N/A
26.8	Banking of Limited Emission Reductions	D	10/22/97	N/A
26.9	Emission Reduction Credit Certificates and The Emission Reduction Credit Register	D	10/22/97	N/A
26.10	Banking For BRAC Military Base Closure or Realignment Actions	D	10/22/97	N/A
27	Banking of Mobile Source Emission Reduction Credits	D	11/29/94	N/A
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	01/12/23	N/A
42	Hearing Board Fees	D	04/14/22	N/A
44	Technical Reports, Charges for	D	12/7/83	N/A
45	Federally Mandated Ozone Nonattainment Fees	D	6/9/2022	Pending
	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
55	Fugitive Dust Control	D	06/24/09	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
60.1	Limiting Potential to Emit – Small Sources	D	04/04/12	N/A
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	02/10/21	12/16/22
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	09/03/21
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	F	03/26/08	01/7/13
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
66.1	Miscellaneous Surface Coating Operations and Other Processes Emitting VOCs	F D	2/24/10 5/11/16	08/09/12 ?
67.0.1	Architectural Coatings	F	02/10/21	12/14/22
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	02/10/21	10/22/21
67.6.2	Vapor Degreasing Operations	F	02/10/21	10/22/21
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	07/08/20	Pending
69.2.2	Medium Boilers, Process Heaters and Steam Generators	F	09/09/21	8/23/23
69.3**	Stationary Gas Turbine Engines	F	Repealed	06/17/97 (Withdrawal Pending)
69.3.1**	Stationary Gas Turbine Engines – BARCT	D	12/9/21	Pending
69.4**	Stationary Internal Combustion Engines	F	Repealed	01/04/06 (Withdrawal Pending)
69.4.1**	Stationary Internal Combustion Engines - BARCT	D	07/08/20	Pending
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
69.7	Landfill Gas Flares	D/F	03/09/23	Pending
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	09/17/85	N/A
75.1††	NSPS & NESHAPS Variance Procedures	D	09/17/85	N/A
97	Emergency Variance	D	07/25/95	N/A
98	Breakdown Conditions: Emergency Variance	D	07/25/95	N/A
	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 D	05/01/81 12/17/97	06/21/82 N/A
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 D	03/30/77 06/20/01	08/31/78 N/A
REGULATION XII - TOXIC AIR CONTAMINANTS				
1200	Toxic Air Contaminants - New Source Review	D	09/19/23	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
1206	Asbestos Removal, Renovation, and Demolition	D	11/15/17	N/A
1210	Toxic Air Contaminant Public Health Risks - Public Notification and Risk Reduction	D	09/19/23	N/A

REGULATION XIV - TITLE V OPERATING PERMITS				
1401	General Provisions	F	10/14/21	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 D	02/27/04 10/12/23	02/27/04 Pending
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. In addition, if an NSPS or NESHAP is revised by EPA and the revised rule not adopted by the District, both versions of the rule are considered federally applicable requirements and the most stringent requirement applies until such time as the District adopts the revised version.

Subpart & Citation	RULE TITLE	District Adoption Date(s)	Federal Delegation Date
Part 60	REGULATION X - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES	04/06/2021	As shown below
A	General Provisions	04/06/2021	04/08/2021
D	Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978	01/29/2020	04/08/2021
Da	Standards of Performance for Industrial-Commercial -Institutional Steam Generating Units	01/29/2020	04/08/2021
Db	Standards of Performance for Small Industrial-Commercial - Institutional Steam Generating Units	01/29/2020	04/08/2021
Dc	Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978	01/29/2020	04/08/2021
E	Standards of Performance for Incinerators	01/29/2020	04/08/2021
Eb	Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for Which Modification Or Reconstruction Commenced After June 19, 1996	06/20/2007	01/03/2008
Ec	Standards of Performance for Hospital/Medical/Infectious Waste Incinerators	01/29/2020	04/08/2021
I	Standards of Performance for Hot Mix Asphalt Facilities	01/29/2020	04/08/2021
J	Standards of Performance for Petroleum Refineries	01/29/2020	04/08/2021
K	Standards of Performance for Storage Vessels for Petroleum Liquids Construct After June 11, 1973 and Prior to May 19, 1978	06/20/2007	01/03/2008
Ka	Standards of Performance for Storage Vessels for Petroleum Liquids Construction after May 18, 1978	06/20/2007	01/03/2008
Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	06/20/2007	01/03/2008
L	Standards of Performance for Secondary Lead Smelters	01/29/2020	04/08/2021
M	Standards of Performance for Secondary Brass and Bronze Ingot Production Plants	01/29/2020	04/08/2021
O	Standards of Performance for Sewage Treatment Plants	01/29/2020	04/08/2021
DD	Standards of Performance for Grain Elevators	01/29/2020	04/08/2021
EE	Standards of Performance for Surface Coating Metal Furniture	01/29/2020	04/08/2021
GG	Standards of Performance for Stationary Gas Turbines	01/29/2020	04/08/2021
QQ	Standards of Performance for the Graphic Arts Industry: Publication Rotogravure Printing	01/29/2020	04/08/2021
RR	Standards of Performance for Pressure Sensitive Tape and Label Surface Coating Operations	01/29/2020	04/08/2021
SS	Standards of Performance for the Industrial Surface Coating Large Appliances	01/29/2020	04/08/2021
TT	Standards of Performance for Metal Coil Surface Coating	01/29/2020	04/08/2021
AAA	Standards of Performance for New Residential Wood Heaters	04/06/2021	04/08/2021
BBB	Standards of Performance for the Rubber Tire Manufacturing Industry	01/29/2020	04/08/2021

FFF	Standards of Performance for Flexible Vinyl and Urethane Coating and Printing	01/29/2020	04/08/2021
JJJ	Standards of Performance for Petroleum Dry Cleaners	01/29/2020	04/08/2021
OOO	Standards of Performance for Nonmetallic Mineral Processing Plants	01/29/2020	04/08/2021
UUU	Standards of Performance for Calciners and Dryers in Mineral Industries	01/29/2020	04/08/2021
VVV	Standards for Polymeric Coating of Supporting Substrates Facilities	05/23/2007	01/03/2008
WWW	Standards of Performance for Municipal Solid Waste Landfills	04/06/2021	04/08/2021
AAAA	Standards of Performance for Small Municipal Waste Combustion Units	06/20/2007	01/03/2008
CCCC	Standards of Performance for Commercial and Industrial Solid Waste Incineration Units	04/06/2021	04/08/2021
EEEE	Standards of Performance for Other Solid Waste Incineration Units	01/29/2020	04/08/2021
IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	04/06/2021	04/08/2021
JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	04/06/2021	04/08/2021
KKKK	Standards of Performance for Stationary Combustion Turbines	04/06/2021	04/08/2021
QQQQ	Standards of Performance for New Residential Hydronic Heaters and Forced-Air Furnaces	04/06/2021	04/08/2021
TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	04/06/2021	04/08/2021
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
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
17 CCR § 93109	ATCM For Emissions of Perchloroethylene From Dry Cleaning Operations
17 CCR § 93101.5	ATCM to Reduce Emissions of Hexavalent Chromium and Nickel from Thermal Spraying
17 CCR § 93105	ATCM for Construction, Grading, Quarrying, and Surface Mining Operations
17 CCR § 93106	Asbestos ATCM for Surface Applications
17 CCR § 93107	ATCM For Emissions of Toxic Metals From Non-Ferrous Metal Melting
17 CCR § 93111	ATCM for Emissions of Chlorinated Toxic Air Contaminants from Automotive Maintenance & Repair Activities
17 CCR § 93112	ATCM for Emissions of Hexavalent Chromium and Cadmium from Motor Vehicle and Motor Equipment Coatings
17 CCR § 93113	ATCM to Reduce Emissions of Toxic Air Contaminants from Outdoor Residential Waste Burning
17 CCR § 93115	ATCM for Stationary Compression Ignition Engines
17 CCR § 93116	ATCM for Portable Diesel-Fueled Engines
DISTRICT RULES AND REGULATIONS APPENDIX B - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR SOURCE CATEGORIES	
Part 63	
A	General Provisions
N	Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks
O	Ethylene Oxide Sterilization Facilities
R	Gasoline Distribution
T	Halogenated Solvent Cleaning
DD	Off-site Waste & Recovery Operations
GG	Aerospace Manufacturing and Rework Facilities
II	Shipbuilding and Ship Repair (Surface Coating)
JJ	Wood Furniture Manufacturing Operations
VVV	Publicly Owned Treatment Works
AAAA	Municipal Solid Waste Landfills
EEEE	Organic Liquids Distribution (non-gasoline)
MMMM	Surface Coating of Miscellaneous Metal Parts and Products
PPPP	Plastic Parts (surface coating)
SSSS	Surface Coating of Metal Coil
VVVV	Boat Manufacturing
WWWW	Reinforced Plastic Composites Production
YYYY	Stationary Combustion Turbines
ZZZZ	Stationary Reciprocating Internal Combustion Engines
DDDDD	Industrial, Commercial, and Institutional Boilers and Process Heaters

GGGGG	Site Remediation
HHHHH	Miscellaneous Coating Manufacturing
PPPPP	Engine Test Cells/Stands
WWWWW	Hospital Ethylene Oxide Sterilizers Area Sources
BBBBBB	Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities
CCCCC	Gasoline Dispensing Facilities
HHHHHH	Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources
JJJJJ	Area Sources: Industrial, Commercial, and Institutional Boilers
QQQQQ	Wood Preserving Area Sources
VVVVV	Chemical Manufacturing Area Sources
WWWWW	Plating and Polishing Operations Area Sources
XXXXX	Metal Fabrication and Finishing Area Sources
AAAAA	Asphalt Processing and Asphalt Roofing Manufacturing Area Sources
CCCCCC	Paint and Allied Products Manufacture Area Sources

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. For some rules, there are separate versions denoted as “F” and “D” which indicates when there is a SIP version of the rule, denoted by “F”, which is federally enforceable, and an amended version of the rule which has been approved by the District but has not been approved into the SIP. At the time a pending rule is approved into the SIP, it will become fully federally enforceable and replace the previous version of the rule.
 - ‘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. For rules 20.2-20.4 as marked with a “*”, certain provisions were not submitted to EPA as denoted in the SIP submittals, and these provisions are therefore not federally enforceable
5. Rules 69.3 and 69.4 were repealed by the District because the applicable provisions were incorporated into Rules 69.3.1 and 69.4.1 which were submitted to EPA for SIP approval. However, these rules have not been approved due to concerns with startup/shutdown exemptions from emission limits.

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