



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
APCD2024-TVP-00049

Issued To:

Encina Wastewater Authority
Site ID # APCD1984-SITE-03370

Site Address:

6200 Avenida Encinas
Carlsbad, CA 92011
(760) 438-3941

Mailing Address

6200 Avenida Encinas
Carlsbad, CA 92011

Responsible Official – Scott McClelland, EWA General Manager

Facility Contact – Alicia Appel, EWA Director of Environmental Compliance

Permit Information Contact – Julie Mitchell, York Engineering, LLC

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	19	Provision of Sampling & Testing Facilities
SDCAPCD Reg. II	19.3	Emission Information
SDCAPCD Reg. II	20.1-20.3	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	50	Visible Emissions
SDCAPCD Reg. IV	51	Nuisance
SDCAPCD Reg. IV	60	Circumvention
SDCAPCD Reg. IV	67.0	Architectural Coatings
SDCAPCD Reg. IV	67.17	Storage of Materials Containing VOC
SDCAPCD Reg. V	98***	Breakdown Conditions: Emergency Variance

B. GENERAL PROHIBITORY REQUIREMENTS

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

Regulation	Rule Citation	Title
SDCAPCD Reg. IV	50	Visible Emissions
SDCAPCD Reg. IV	51	Nuisance
SDCAPCD Reg. IV	52	Particulate Matter
SDCAPCD Reg. IV	53	Specific Contaminants
SDCAPCD Reg. IV	54	Dust and Fumes
SDCAPCD Reg. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. IV	68	Fuel Burning Equipment – NO _x
SDCAPCD Reg. IV	69.4.1*	Medium Boilers, Process Heaters and Steam Generators

SDCAPCD Reg. X	40 CFR 60 Subpart A	NSPS General Provisions
40 CFR Part 60	Subpart A	NSPS General Provisions
40 CFR Part 60	Subpart IIII	Stationary Compression Ignition Combustion Engines
40 CFR Part 60	Subpart JJJJ	Stationary Spark Ignition Internal Combustion Engines
SDAPCD Reg. X	17 CCR 93115	Stationary Compression Ignition Engines
SDCAPCD Reg. XI	40 CFR 63 Subpart A	NESHAP General Provisions
40 CFR Part 63	Subpart ZZZZ	Stationary Reciprocating Internal Combustion Engines
SDCAPCD Reg. XII	1200**	Toxic Air Contaminants – New Source Review
SDCAPCD Reg. XII	1206	Asbestos Removal, Demolition and Renovation

**The District has submitted a revised version of Rule 69.4.1 for approval into the SIP which will replace 69.4 which has been repealed by the District. However, because EPA has not acted on this submittal, the current version of Rule 69.4 is still federally enforceable and Rule 69.4.1 is not.*

***Not federally enforceable*

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

C. PERMIT SHIELDS

None.

D. ADDITIONAL TERMS

None.

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
APCD2008-PTO-961446	Wastewater Treatment
APCD2008-PTO-982044	Diesel Emergency Standby Engine
APCD2010-PTO-000542	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
APCD2010-PTO-000543	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
APCD2010-PTO-000544	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
APCD2010-PTO-000545	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
APCD2011-PTO-001004	Flare(s)
APCD2011-PTO-001016	Biosolids Processing Operations

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.

This facility does not have registered or leased emission units.

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 n

No insignificant units were listed in the permittee's application

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
APCD2008-PTO-961446	Wastewater Treatment
APCD2008-PTO-982044	Diesel Emergency Standby Engine
APCD2010-PTO-000542	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
APCD2010-PTO-000543	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
APCD2010-PTO-000544	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
APCD2010-PTO-000545	Cogeneration Engine Digester Gas w/Natural Gas Backup Fuel
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PERMIT ID
APCD2008-PTO-961446

Encina Wastewater Authority
Director of Environmental Compliance AI
6200 Avenida Encinas
Carlsbad CA, 92011

EQUIPMENT ADDRESS
Encina Wastewater Authority
Douglas Campbell
6200 Avenida Encinas
Carlsbad CA 92011

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

Encina Wastewater Authority General Manager 6200 Avenida Encinas, Carlsbad, CA 92011

EQUIPMENT DESCRIPTION

A 36 million gallon per day (average dry weather flow) secondary wastewater treatment facility consisting of; headworks and primary sedimentation basins controlled by ORF1; mechanical bar screens; aerated grit chambers, primary clarifiers, and activated sludge aeration controlled by ORF3; secondary sedimentation; ocean outfall and miscellaneous operations (utility systems, pumps, motors, blowers chemical feed systems, etc.). ORF1 consists of a biological reduction tower and activated carbon adsorption system. ORF3 consists of an activated carbon adsorption system (one duty and one standby).

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 [56A] Sewage Treatment Facility

BEC: APCD2016-CON-001151

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. At no time shall the subject equipment cause or contribute to a nuisance as specified in District Rule 51. If compliance with Rule 51 cannot be demonstrated to the satisfaction of the District, the applicant will take whatever corrective action necessary to meet applicable requirements. If corrective action requires any physical change or modification to the subject equipment, the applicant shall apply for and obtain an Authority to Construct for all such modifications.
2. The Air Pollution Control equipment shall be maintained in good operating condition and shall be in full operation in accordance with the facility operations and maintenance (O&M) manual at all times when the process equipment is in operation except during periods of scheduled equipment maintenance not to exceed 240 hours per calendar year. The District must be notified of all air pollution control equipment maintenance outages exceeding 24 hours. Notification must be submitted in writing within 3 business days before or after of the initial maintenance outage. The O&M manual and logs of the date, duration (in minutes) and purpose of all air pollution control equipment outages for scheduled maintenance shall be maintained on-site for three years and made available to District personnel upon request.
[Rule 51, Rule 1200]

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3. The biological reduction tower and the activated carbon adsorption system of odor reduction facility 1 (ORF 1) shall be operated in series except during periods of equipment maintenance.
[Rule 51, Rule 1200]
4. The activated carbon adsorption system of odor reduction facility 3 (ORF 3) shall be operated except during periods of equipment maintenance. Logs of date, duration and which odor control device was in operation shall be maintained on-site for three years and made available to the District upon request.
[Rule 51, Rule 1200]
5. Where equipped, process covers or enclosures, with the exception of access hatches, shall be used at all times except during periods of equipment maintenance or while moving vehicles or equipment into or out of buildings or enclosures controlled by odor reduction equipment (ORF 1 and ORF 3).
[Rule 51, Rule 1200]
6. The biological reduction tower shall be equipped with a visual display indicating the instantaneous scrubber liquid recirculation flow rate. The biological reduction tower associated with ORF 1 shall have a liquid recirculation flow rate greater than 450 gallons per minute when the tower is in operation. The liquid recirculation flow rate values shall be recorded daily. Daily liquid recirculation flow rate records shall be maintained on-site for three years and made available to the District upon request.
[Rule 51, Rule 1200]
7. Annual sulfur content testing shall be conducted on the activated carbon in each odor control system (ORF 1 and ORF 3) using ASTM-D1619 Method B, ASTM-D1619-83 Method B or Calgon method TM-30 (or any other equivalent method approved in writing and prior to testing by the District). The sampling shall be done at the fourth sampling port (counting in the direction of air flow) of each of the upper and lower carbon beds. Records of annual testing results shall be maintained on-site for three years and made available to the District upon request.
[Rule 51, Rule 1200]
8. Replacement of the activated carbon in each odor control system is required if: testing indicates the average of all samples equals or exceeds 4% total sulfur as determined by ASTM D16129-03 Method B, ASTM D1619-83 Method B, Calgon Method TM-30 (or any other equivalent method approved prior to testing in writing by the District). If any single reading is above 4% but the daily average is below 4%; the facility will either:
1) replace carbon within 180 days OR
2) If the replacement of the activated carbon will not be conducted with 180 days of this determination, the Permittee shall measure and record the hydrogen sulfide concentrations on the inlet and outlet the carbon adsorber at least once per day. The outlet hydrogen sulfide concentration shall not exceed 1 ppmv. Hydrogen sulfide concentration records shall be maintained on site for at least three years and made available to District personnel upon request.
[Rule 51, Rule 1200]
9. If multiple samples are taken for averaging to determine compliance with the 4% total sulfur content for annual sulfur content testing the samples must be taken at the same time at the same sampling port for each carbon bed.
[Rule 51, Rule 1200]
10. Hydrogen Sulfide concentrations shall be measured with a properly calibrated Portable Hydrogen Sulfide Analyzer (such as an Industrial Scientific ATX-612 H₂S, Jerome Meter Model 631-X, Acrulog H₂S Parts Per Billions Monitor, or OdaLog Low Range H₂S Logger (0.01 to 2.00 ppm)), an appropriate Dräger tube #8101991) or any equivalent method approved in writing by the District. The above monitoring equipment shall be maintained and calibrated in accordance with manufacturer's specifications. The manufacturer's specifications shall be made available to District personnel upon request.
[Rule 51, Rule 1200]
11. Spent carbon shall be stored in closed containers pending removal from site.
[Rule 51, Rule 1200]
12. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]



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B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

13. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
14. 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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APCD2008-PTO-982044

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EQUIPMENT ADDRESS
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PERMIT TO OPERATE

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

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

EQUIPMENT OWNER

EQUIPMENT DESCRIPTION

EMERGENCY STANDBY ENGINE: MITSUBISHI HEAVY INDUSTRIES ENGINE, MODEL 37.1A60 S/N 30788, RATED AT 1528 BHP, MODEL YEAR 2004, EPA CERTIFIED OF ENGINE FAMILY NUMBER 4MVXL37.1 ABC, TURBOCHARGED, DRIVING A 975 KW GENERATOR. (982044-CCN-10/05)

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

Fee Schedules: 1 [34H] California Certified Emergency Standby Engine

BEC: APCD2020-CON-001736

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. The engine shall be operated exclusively during emergencies as defined in Rule 69.4.1 or Rule 12 or 17CCR93115 as applicable, or for maintenance and testing.
2. This engine shall not be used as a part of a non-emergency Demand Response Program (DRP). This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR 93115)
3. Engine operation for maintenance and testing purposes shall not exceed 50 hours per calendar year. (17 CCR 93115)
4. This engine shall only use CARB diesel fuel. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)
5. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
6. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)

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7. The engine and any associated air pollution control equipment and monitoring equipment shall be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions (40CFR Subpart ZZZZ §63.6605(b)).
8. The owner or operator shall minimize engine operating time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.(40CFR Subpart ZZZZ §63.6625(h))
9. This engine shall not operate for non-emergency use during the following periods, as applicable:
 - (a) whenever there is any school sponsored activity, if engine is located on school grounds or
 - (b) between 7:30am and 3:30pm on days when school is in session, if the engine is located within 500 feet of, but not on, school grounds.This condition shall not apply to an engine located at or near any school grounds that also serve as the students' place of residence. (17 CCR 93115)
10. Engine operation in response to notification of an impending rotating outage shall be subject to all the following restrictions:
 - (a) the utility distribution company has ordered rotating outages in the control area where the engine is located,
 - (b) the engine is operated no more than 30 minutes prior to the time when the utility distribution company officially forecasts a rotating outage in the cited control area, and
 - (c) the engine operation is terminated immediately after the utility distribution company advises that a rotating outage is no longer in effect.This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR 93115)
11. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
 - (a) old meter's hour reading,
 - (b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter, and
 - (c) copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request.
(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
12. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary; and
 - 3) Inspect all hoses and belts, replacing as necessary.Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
(Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)

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13. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - (a) documentation shall be maintained identifying the fuel as CARB diesel, and
 - (b) manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company.
(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 63 Subpart ZZZZ)
14. The owner or operator of this engine shall maintain a monthly operating log containing, at a minimum, the following:
 - (a) dates and elapsed times of every instance of engine operation based on actual readings of the engine hour meter; whether the operation was for maintenance and testing purposes or emergency use; and the nature of the emergency;
 - (b) if located within 500 feet of a school, the time of day of every instance of engine operation for testing and maintenance, unless the engine emits no more than 0.01 g/bhp-hr of diesel particulate matter or meets the requirements specified in 17CCR, Section 93115.13(f);
 - (c) for a total external power outage, documentation from the serving utility of an outage in the area where the engine is located; for an internal power outage, a description of what caused the failure and receipts and/or work orders for the necessary repairs; for a partial external power outage, including a low-voltage or electrical transient incident in which the external power voltage is low enough to trigger the operation of an emergency standby engine, a description of the incident;
 - (d) total cumulative hours of operation per calendar year;
 - (e) records of annual engine maintenance shall include the date the maintenance was performed and the nature of the maintenance; and
 - (f) hours of operation for all uses other than those specified above and identification of the nature of that use.
(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
15. All records required by this permit shall be kept for a minimum of 60 months from their date of creation unless otherwise indicated by the conditions of this permit. These records shall be maintained onsite for a minimum of 36 months from their date of creation and made available to the District upon request. The remaining 24 months of records may be retained off site. Records kept off site shall be made available to the District within 5 working days of request. (Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)
16. 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

17. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
18. 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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Site ID: APCD1984-SITE-03370
App ID: APCD2024-APP-008117

PERMIT ID
APCD2010-PTO-000542

Encina Wastewater Authority
Director of Environmental Compliance Al
6200 Avenida Encinas
Carlsbad CA, 92011

EQUIPMENT ADDRESS
Encina Wastewater Authority
Douglas Campbell
6200 Avenida Encinas
Carlsbad CA 92011

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

Encina Wastewater Authority General Manager 6200 Avenida Encinas, Carlsbad, CA 92011

EQUIPMENT DESCRIPTION

Cogeneration engine #1: Caterpillar lean burn engine, model G3516, S/N 4EK05160, fueled with digester gas and supplemented with natural gas, rated at 1306 bhp when fueled with digester gas and 1085 bhp when fueled with natural gas, driving a 750 KW generator.

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 [34B] Cogeneration Engine
1 [92F] NOx and CO Source Test

BEC: APCD2010-CON-000177

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. When fueled with digester gas, the emissions of oxides of nitrogen (NOx) shall not exceed 47 parts per million by volume (ppmv), calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
2. When fueled with digester gas, the emissions of carbon monoxide (CO), shall not exceed 400 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
3. When fueled with natural gas, the emissions of oxides of nitrogen (NOx) shall not exceed 54 ppmv, calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
4. When fueled with natural gas, the emissions of carbon monoxide (CO), shall not exceed 390 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]

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5. The engine must comply with the following emission limits of Rule 69.4.1 subsection (d)(1)(ii)(A):

- a. NO_x (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]

6. Total digester gas and natural gas consumption for the four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545 shall not exceed 280 million standard cubic feet per year. Total natural gas consumption for all four engines shall not exceed 28 million standard cubic feet per year. Records demonstrating compliance with these limits shall be maintained on site and made available for inspection upon request.

[Rule 21, Rule 1200, Rule 20.3]

8. 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 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)

9. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:

- 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
- 2) Inspect and clean air filters, replacing as necessary;
- 3) Inspect all hoses and belts, replacing as necessary; and
- 4) Inspect spark plugs, if equipped, replacing as necessary.

Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(Rule 69.4.1, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 JJJJ).

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10. The owner or operator shall have a trained operator use a portable analyzer to take NOx 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 NOx (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)]
11. 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)]
12. The owner or operator of the engine shall maintain records containing, at a minimum, the following: total daily and annual fuel consumptions of all four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545; records of periodic inspection and maintenance for the engines and control equipment, including dates inspection and maintenance were performed and copies of manuals of recommended maintenance procedures provided by the manufacturer.
[Rule 69.4.1]
13. All records shall be retained on site for at least three (3) years and made readily available to the District upon request.
[Rule 69.4.1(g)(9)]
14. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year.
[Rule 69.4.1 (i)(1)]
15. The engine shall be source tested annually to demonstrate compliance with the emission standards contained in this permit. Source testing shall be performed using the fuel with higher annual fuel consumption (in standard cubic feet) during the previous calendar year.
[Rule 69.4.1 (h)]

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

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

16. By December 31, 2026, unless otherwise authorized in writing by the District, 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 and gas conditioning systems) 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 health hazard index and residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
17. By August 30, 2029, the Permittee shall have the controls installed on the engines and begin operating the controls. The controls must achieve a minimum of 80% reduction of formaldehyde, and compliance with this limit shall be demonstrated based on a method approved by the District as part of the applications to install such controls, unless otherwise authorized in writing by the District. [Rule 1210]
18. By April 22, 2030, the Permittee shall reduce the acute health hazard index and the residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds, as proposed in the RRAP application approved by the District on April 22, 2025, 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]
19. Permittee shall submit annual progress reports to the District, with the first due no later than August 31, 2026 and each subsequent report due August 31 of each calendar year, unless the permittee has obtained an extension in writing from the District. This requirement no longer applies once controls have been installed and are in operation, and the permittee has demonstrated to the District that the acute health hazard index and the residential maximum individual cancer risk have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
21. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
22. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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PERMIT ID
APCD2010-PTO-000543

Encina Wastewater Authority
Director of Environmental Compliance Al
6200 Avenida Encinas
Carlsbad CA, 92011

EQUIPMENT ADDRESS
Encina Wastewater Authority
Douglas Campbell
6200 Avenida Encinas
Carlsbad CA 92011

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

Encina Wastewater Authority General Manager 6200 Avenida Encinas, Carlsbad, CA 92011

EQUIPMENT DESCRIPTION

Cogeneration engine #2: Caterpillar lean burn engine, Model G3516, S/N 4EK05161, fueled with digester gas and supplemented with natural gas, rated at 1306 bhp when fueled with digester gas and 1085 bhp when fueled with natural gas, driving a 750 KW generator.

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 [34B] Cogeneration Engine
1 [92F] NOx and CO Source Test

BEC: APCD2010-CON-000177

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. When fueled with digester gas, the emissions of oxides of nitrogen (NOx) shall not exceed 47 parts per million by volume (ppmv), calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
2. When fueled with digester gas, the emissions of carbon monoxide (CO), shall not exceed 400 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
3. When fueled with natural gas, the emissions of oxides of nitrogen (NOx) shall not exceed 54 ppmv, calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
4. When fueled with natural gas, the emissions of carbon monoxide (CO), shall not exceed 390 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]

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5. The engine must comply with the following emission limits of Rule 69.4.1 subsection (d)(1)(ii)(A):

- a. NO_x (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]

6. Total digester gas and natural gas consumption for the four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545 shall not exceed 280 million standard cubic feet per year. Total natural gas consumption for all four engines shall not exceed 28 million standard cubic feet per year. Records demonstrating compliance with these limits shall be maintained on site and made available for inspection upon request.

[Rule 21, Rule 1200, Rule 20.3]

8. 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 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)

9. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:

- 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
- 2) Inspect and clean air filters, replacing as necessary;
- 3) Inspect all hoses and belts, replacing as necessary; and
- 4) Inspect spark plugs, if equipped, replacing as necessary.

Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(Rule 69.4.1, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 JJJJ).



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10. The owner or operator shall have a trained operator use a portable analyzer to take NOx 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 NOx (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)]
11. 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)]
12. The owner or operator of the engine shall maintain records containing, at a minimum, the following: total daily and annual fuel consumptions of all four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545; records of periodic inspection and maintenance for the engines and control equipment, including dates inspection and maintenance were performed and copies of manuals of recommended maintenance procedures provided by the manufacturer.
[Rule 69.4.1]
13. All records shall be retained on site for at least three (3) years and made readily available to the District upon request.
[Rule 69.4.1(g)(9)]
14. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year.
[Rule 69.4.1 (i)(1)]
15. The engine shall be source tested annually to demonstrate compliance with the emission standards contained in this permit. Source testing shall be performed using the fuel with higher annual fuel consumption (in standard cubic feet) during the previous calendar year.
[Rule 69.4.1 (h)]



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

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

16. By December 31, 2026, unless otherwise authorized in writing by the District, 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 and gas conditioning systems) 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 health hazard index and residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
17. By August 30, 2029, the Permittee shall have the controls installed on the engines and begin operating the controls. The controls must achieve a minimum of 80% reduction of formaldehyde, and compliance with this limit shall be demonstrated based on a method approved by the District as part of the applications to install such controls, unless otherwise authorized in writing by the District. [Rule 1210]
18. By April 22, 2030, the Permittee shall reduce the acute health hazard index and the residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds, as proposed in the RRAP application approved by the District on April 22, 2025, 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]
19. Permittee shall submit annual progress reports to the District, with the first due no later than August 31, 2026 and each subsequent report due August 31 of each calendar year, unless the permittee has obtained an extension in writing from the District. This requirement no longer applies once controls have been installed and are in operation, and the permittee has demonstrated to the District that the acute health hazard index and the residential maximum individual cancer risk have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
21. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
22. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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Carlsbad CA, 92011

EQUIPMENT ADDRESS
Encina Wastewater Authority
Douglas Campbell
6200 Avenida Encinas
Carlsbad CA 92011

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

Encina Wastewater Authority General Manager 6200 Avenida Encinas, Carlsbad, CA 92011

EQUIPMENT DESCRIPTION

Cogeneration engine #3: Caterpillar lean burn engine, Model G3516, S/N 4EK05168, fueled with digester gas and supplemented with natural gas, rated at 1306 bhp when fueled with digester gas and 1085 bhp when fueled with natural gas, driving a 750 KW generator.

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 [34B] Cogeneration Engine
1 [92F] NOx and CO Source Test

BEC: APCD2010-CON-000177

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. When fueled with digester gas, the emissions of oxides of nitrogen (NOx) shall not exceed 47 parts per million by volume (ppmv), calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
2. When fueled with digester gas, the emissions of carbon monoxide (CO), shall not exceed 400 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
3. When fueled with natural gas, the emissions of oxides of nitrogen (NOx) shall not exceed 54 ppmv, calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
4. When fueled with natural gas, the emissions of carbon monoxide (CO), shall not exceed 390 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]

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5. The engine must comply with the following emission limits of Rule 69.4.1 subsection (d)(1)(ii)(A):

- a. NO_x (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]

6. Total digester gas and natural gas consumption for the four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545 shall not exceed 280 million standard cubic feet per year. Total natural gas consumption for all four engines shall not exceed 28 million standard cubic feet per year. Records demonstrating compliance with these limits shall be maintained on site and made available for inspection upon request.

[Rule 21, Rule 1200, Rule 20.3]

8. 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 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)

9. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:

- 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
- 2) Inspect and clean air filters, replacing as necessary;
- 3) Inspect all hoses and belts, replacing as necessary; and
- 4) Inspect spark plugs, if equipped, replacing as necessary.

Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(Rule 69.4.1, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 JJJJ).

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10. The owner or operator shall have a trained operator use a portable analyzer to take NOx 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 NOx (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)]
11. 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)]
12. The owner or operator of the engine shall maintain records containing, at a minimum, the following: total daily and annual fuel consumptions of all four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545; records of periodic inspection and maintenance for the engines and control equipment, including dates inspection and maintenance were performed and copies of manuals of recommended maintenance procedures provided by the manufacturer.
[Rule 69.4.1]
13. All records shall be retained on site for at least three (3) years and made readily available to the District upon request.
[Rule 69.4.1(g)(9)]
14. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year.
[Rule 69.4.1 (i)(1)]
15. The engine shall be source tested annually to demonstrate compliance with the emission standards contained in this permit. Source testing shall be performed using the fuel with higher annual fuel consumption (in standard cubic feet) during the previous calendar year.
[Rule 69.4.1 (h)]

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

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

16. By December 31, 2026, unless otherwise authorized in writing by the District, 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 and gas conditioning systems) 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 health hazard index and residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
17. By August 30, 2029, the Permittee shall have the controls installed on the engines and begin operating the controls. The controls must achieve a minimum of 80% reduction of formaldehyde, and compliance with this limit shall be demonstrated based on a method approved by the District as part of the applications to install such controls, unless otherwise authorized in writing by the District. [Rule 1210]
18. By April 22, 2030, the Permittee shall reduce the acute health hazard index and the residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds, as proposed in the RRAP application approved by the District on April 22, 2025, 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]
19. Permittee shall submit annual progress reports to the District, with the first due no later than August 31, 2026 and each subsequent report due August 31 of each calendar year, unless the permittee has obtained an extension in writing from the District. This requirement no longer applies once controls have been installed and are in operation, and the permittee has demonstrated to the District that the acute health hazard index and the residential maximum individual cancer risk have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
21. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
22. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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EQUIPMENT OWNER

Encina Wastewater Authority General Manager 6200 Avenida Encinas, Carlsbad, CA 92011

EQUIPMENT DESCRIPTION

Cogeneration engine #4: Caterpillar lean burn engine, Model G3516, S/N 4EK05175, fueled with digester gas and supplemented with natural gas, rated at 1306 bhp when fueled with digester gas and 1085 bhp when fueled with natural gas, driving a 750 KW generator.

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 [34B] Cogeneration Engine
1 [92F] NOx and CO Source Test

BEC: APCD2010-CON-000177

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. When fueled with digester gas, the emissions of oxides of nitrogen (NOx) shall not exceed 47 parts per million by volume (ppmv), calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
2. When fueled with digester gas, the emissions of carbon monoxide (CO), shall not exceed 400 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
3. When fueled with natural gas, the emissions of oxides of nitrogen (NOx) shall not exceed 54 ppmv, calculated as nitrogen dioxide at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]
4. When fueled with natural gas, the emissions of carbon monoxide (CO), shall not exceed 390 ppmv, calculated at 15 percent oxygen on a dry basis.
[Rule 1200, Rule 20.3]

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5. The engine must comply with the following emission limits of Rule 69.4.1 subsection (d)(1)(ii)(A):

- a. NO_x (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]

6. Total digester gas and natural gas consumption for the four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545 shall not exceed 280 million standard cubic feet per year. Total natural gas consumption for all four engines shall not exceed 28 million standard cubic feet per year. Records demonstrating compliance with these limits shall be maintained on site and made available for inspection upon request.

[Rule 21, Rule 1200, Rule 20.3]

8. 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 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)

9. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:

- 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
- 2) Inspect and clean air filters, replacing as necessary;
- 3) Inspect all hoses and belts, replacing as necessary; and
- 4) Inspect spark plugs, if equipped, replacing as necessary.

Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(Rule 69.4.1, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 JJJJ).

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10. The owner or operator shall have a trained operator use a portable analyzer to take NOx 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 NOx (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)]
11. 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)]
12. The owner or operator of the engine shall maintain records containing, at a minimum, the following: total daily and annual fuel consumptions of all four engines of Permit Nos. APCD2010-PTO-000542, APCD2010-PTO-000543, APCD2010-PTO-000544 and APCD2010-PTO-000545; records of periodic inspection and maintenance for the engines and control equipment, including dates inspection and maintenance were performed and copies of manuals of recommended maintenance procedures provided by the manufacturer.
[Rule 69.4.1]
13. All records shall be retained on site for at least three (3) years and made readily available to the District upon request.
[Rule 69.4.1(g)(9)]
14. This equipment shall be source tested once each permit year (annual source test) to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year.
[Rule 69.4.1 (i)(1)]
15. The engine shall be source tested annually to demonstrate compliance with the emission standards contained in this permit. Source testing shall be performed using the fuel with higher annual fuel consumption (in standard cubic feet) during the previous calendar year.
[Rule 69.4.1 (h)]



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

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

16. By December 31, 2026, unless otherwise authorized in writing by the District, 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 and gas conditioning systems) 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 health hazard index and residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
17. By August 30, 2029, the Permittee shall have the controls installed on the engines and begin operating the controls. The controls must achieve a minimum of 80% reduction of formaldehyde, and compliance with this limit shall be demonstrated based on a method approved by the District as part of the applications to install such controls, unless otherwise authorized in writing by the District. [Rule 1210]
18. By April 22, 2030, the Permittee shall reduce the acute health hazard index and the residential maximum individual cancer risk below the Rule 1210 Significant Risk Thresholds, as proposed in the RRAP application approved by the District on April 22, 2025, 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]
19. Permittee shall submit annual progress reports to the District, with the first due no later than August 31, 2026 and each subsequent report due August 31 of each calendar year, unless the permittee has obtained an extension in writing from the District. This requirement no longer applies once controls have been installed and are in operation, and the permittee has demonstrated to the District that the acute health hazard index and the residential maximum individual cancer risk have been reduced below the Rule 1210 Significant Risk Thresholds. [Rule 1210]
21. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
22. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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EQUIPMENT OWNER

Encina Wastewater Authority General Manager 6200 Avenida Encinas, Carlsbad, CA 92011

EQUIPMENT DESCRIPTION

One (1) Varc Biogas 244 Series Flare equipped with enclosed burner and autopilot ignition system.

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 [91A] Miscellaneous

BEC: APCD2010-CON-000123

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

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. There shall be no visible emissions from the exhaust stack of the air pollution control systems. (Rule 50)
2. At no time shall the subject equipment cause or contribute to a public nuisance as specified in District Rule 51. If compliance with Rule 51 cannot be demonstrated to the satisfaction of the District, the permittee will take whatever corrective action necessary to meet applicable requirements. If corrective action requires any physical change or modification to the subject equipment the permittee shall apply for and obtain an Authority to Construct for all such modifications prior to making any physical change.
3. The permittee shall comply with Rule 53.
4. Digester gas usage at the flare shall not exceed 300 million cubic feet per calendar year. Records of digester gas usage (in million cubic feet) shall be maintained onsite for three years and made available to the District personnel upon request.

[Rule 1200, Rule 20.3]



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5. A functioning non-resettable totalizing flow meter which displays and measures standardized volumetric flow rate with an accuracy of +/- 5% shall be installed in the digester gas fuel line to the flare. The totalizing flow meter shall be calibrated in accordance with the manufacturer's specifications. Records of calibration including manufacturer's calibration specifications indicating the flow meter's accuracy and dates of calibration shall be maintained on-site for three years and made available to District personnel upon request. (Rule 51)
6. The air pollution control system and its monitoring equipment shall be maintained in good operating condition and shall be in full operation in accordance with the facility's operations and maintenance (O&M) manual at all times when the process equipment is not in use. The O&M manual shall be maintained on-site and made available to District personnel upon request. (Rule 51)
7. A flame shall be present in the flare at all times when combustible gases are vented through the flare.
[Rule 1200]
8. The flare shall be operated with a continuous pilot flame and the flare shall be equipped with a thermocouple capable of continuously detecting if the pilot flame is present.
[Rule 20.3]
9. 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

10. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
11. 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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EQUIPMENT OWNER

Encina Wastewater Authority 6200 Avenida Encinas, Carlsbad, CA 92011

EQUIPMENT DESCRIPTION

A biosolids processing operation (36.1 dry tons per day maximum capacity) consisting of: three 94,000 gallon (40' dia. X 10' side water depth (SWD)) dissolved air flotation (DAF) thickeners, a wet cake bin conveyor, two wet cake bins, a wet cake truck load out station, three anaerobic digesters [(2) 95' dia. X 42' SWD and (1) 105' dia. X 35' SWD], one 50' dia. X 22' SWD sludge storage tank, two centrifuges, one 15 MMBTU/hr digester gas/natural gas fired sludge dryer with associated processing equipment, two (2) alternative receiving tanks (22,500 gallons capacity) and two (2) support pumps (400 gallons per minute maximum), two (2) Rock Trap Grinders, vented to the air pollution control equipment via two (2) Odor System Blowers (minimum capacity of 50 cfm), two pellet silos, conveyance and storage equipment. Air pollution control equipment consists of: 1) a biological reduction tower and activated carbon adsorber system controlling emissions from the DAF thickeners, the wet cake bin conveyor, two wet cake bins, the wet cake truck load out station, the silo baghouse, and two pellet silos 2) an impingement tray scrubber/condenser and one Venturi scrubber controlling emissions from the sludge dryer train, 3) one natural gas fired 1.3 MMBTU/hr regenerative thermal oxidizer (RTO) controlling emissions from both the Venturi scrubber exhaust and and 4) dual throat wet scrubber serving the sludge dryer train discharged to the air pollution control device under normal operation and RTO when the air pollution control device is being serviced.

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 [56A] Sewage Treatment Facility

BEC: APCD2015-CON-001052

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

Sectors: 2, E
Site ID: APCD1984-SITE-03370
App ID: APCD2024-APP-008117

PERMIT ID
APCD2011-PTO-001016



A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. At no time shall the subject equipment cause or contribute to a public nuisance as specified in District Rule 51. If compliance with Rule 51 cannot be demonstrated to the satisfaction of the District, the permittee will take whatever corrective action necessary to meet applicable requirements. If corrective action requires any physical change or modification to the subject equipment the permittee shall apply for and obtain an Authority to Construct for all such modifications prior to making any physical change. [Rule 51]
2. The odor reduction facility (ORF) and its monitoring equipment shall be maintained in good operating condition and shall be in full operation in accordance with the facility's operations and maintenance (O&M) manual at all times when the process equipment is in use, except during periods of any planned maintenance affecting the ORF not to exceed 120 hours per calendar year. Full operation consists of: (1) biotower and carbon operating at the same time, (2) the biotower only in operation or (3) the carbon adsorber in operation. The District must be notified of all ORF maintenance shutdown exceeding 24 hours. Notification must be by phone [(858) 586-2650] within two days of a planned shutdown and, as soon as possible, but no later than two hours after an unexpected shutdown. The O&M manual and logs of the date, duration (in minutes) and purpose of any maintenance affecting the ORF shall be maintained on-site for three years and made available to District personnel upon request. [Rule 51]
3. Where equipped, process covers or enclosures shall be used at all times except during periods of equipment maintenance or while moving vehicles or equipment into and out of buildings or enclosures that are equipped with odor control equipment. [Rule 51]
4. The biological reduction tower shall be equipped with a visual display indicating the instantaneous scrubber liquid flow rate. The flow rate shall be greater than 450 gallons per minute when the biological reduction tower is in operation. The flow rate values shall be recorded daily. Daily flow rate records shall be maintained on site for three years and made available to the District upon request. [Rule 51]
5. Sulfur content testing shall be conducted at least once every 365 days on the carbon in each activated carbon system using ASTM D1619 Method B, Calgon Method TM-30 (or any other equivalent method approved prior to testing in writing by the District). The sampling shall be done at the fourth sampling port (counting in the direction of air flow) of each carbon bed. Records of the dates of carbon sampling, sampling ports used and test results shall be maintained on site for at least three years and made readily available to District personnel upon request. [Rule 51]
6. Replacement of the activated carbon in each odor reduction system is required within 180 days after the sampling date of sulfur content testing indicates the carbon (in either bed) contains 4% total sulfur (by weight) or greater as determined by ASTM D1619 Method B, Calgon Method TM-30 or any other equivalent method approved in writing by the District. [Rule 51]
7. Records of the carbon manufacturer's hydrogen sulfide removal capacity, the carbon bed sample date, the carbon bed analyses laboratory results, the date(s) of the activated carbon replacement and the manufacturer specification indicating the type of carbon shall be maintained for each carbon bed. These records shall be maintained on site for three years and made readily available to the District personnel upon request. [Rules 51 and 21]
8. There shall be no visible emissions from the exhaust stack of the air pollution control systems. [Rule 50]
9. The Regenerative thermal oxidizer (RTO) temperature shall be at least 1500°F when the process equipment is in operation. The RTO temperature shall be recorded daily. [Rule 20.3]
10. Sludge output shall not exceed 13,176.5 dry tons per year. Sludge output shall be recorded daily. [Rule 1200, Rule 20.3]
11. Control equipment parameters, including scrubber liquid flow rates, sludge storage silo baghouse differential pressure, dual throat wet scrubber differential pressure and regenerative thermal oxidizer (RTO) temperature shall be measured and recorded at least once per day. [Rule 20.3; Rules 51 and 54]
12. The sludge storage silo baghouse differential pressure shall not exceed 17.0" water column when the process equipment is in operation. [Rule 20.3]



COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
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Sectors: 2, E
Site ID: APCD1984-SITE-03370
App ID: APCD2024-APP-008117

PERMIT ID
APCD2011-PTO-001016

13. The dual throat wet scrubber differential pressure shall operate between 5.0" and 16.0" water column when the equipment is in operation.
[Rule 20.3]
14. All records required shall be maintained onsite for a minimum of 3 years and be readily available for District inspection.
[Rule 21, 51 and 54]
15. 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

16. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
17. 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 Liquid 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 Liquid 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 Industries	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
III	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
Part 63	DISTRICT RULES AND REGULATIONS APPENDIX B - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR SOURCE CATEGORIES
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
QQQQQQ	Wood Preserving Area Sources
VVVVVV	Chemical Manufacturing Area Sources
WWWWW	Plating and Polishing Operations Area Sources
XXXXXX	Metal Fabrication and Finishing Area Sources
AAAAAAA	Asphalt Processing and Asphalt Roofing Manufacturing Area Sources
CCCCCCC	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