



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

December 14, 2011

Mr. Gerardo Rios
Chief – Permits Office
U. S. EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

Subject: Transmittal of Final Title V Renewal Permit

Dear Mr. Rios:

Enclosed is the final Title V renewal permit issued by the South Coast Air Quality Management District (AQMD) under Application No. 516554 for Loma Linda University Medical Center (ID 800234) located at 10935 Parkland Avenue, Loma Linda, CA 92350. The proposed renewal permit for this facility was submitted to EPA Region IX for 45-day review on October 26, 2011 and made available for 30-day public comment on November 3, 2011. The AQMD did not receive any public comments on the proposed renewal permit.

If there are specific questions on this Title V renewal permit, please contact Mr. Marcel Saulis, Air Quality Engineer II at (909) 396-3093.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Yeh", with the word "For" written in smaller letters to the right of the signature.

Brian L. Yeh
Senior Engineering Manager
Mechanical, Chemical, and Public Services

Enclosure

FACILITY PERMIT TO OPERATE

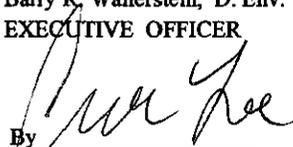
**LOMA LINDA UNIV
10935 PARKLAND AVE
LOMA LINDA, CA 92350**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By 

Mehzen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

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FACILITY PERMIT TO OPERATE
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SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: LOMA LINDA UNIV

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 10935 PARKLAND AVE
LOMA LINDA, CA 92350-0001

MAILING ADDRESS: 25027 MOUND ST
LOMA LINDA, CA 92354

RESPONSIBLE OFFICIAL: GEORGE JOHNSTON

TITLE: EXECUTIVE DIRECTOR OF ADMINISTRATION

TELEPHONE NUMBER: (909) 558-4999

CONTACT PERSON: DONNA GURULE

TITLE: EH&S OFFICER

TELEPHONE NUMBER: (909) 558-4999

TITLE V PERMIT ISSUED: December 14, 2011

TITLE V PERMIT EXPIRATION DATE: December 13, 2016

TITLE V	RECLAIM
YES	NOx: NO
	SOx: NO
	CYCLE: 0
	ZONE: INLAND

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SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

NOT APPLICABLE

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**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

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PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
139146	D03504	INCIN PATHOLOGICAL 51-100 LB/HR
144646	M56895	I C E (50-500 HP) EM ELEC GEN-DIESEL
176594	D09075	I C E (50-500 HP) EM ELEC GEN-DIESEL
178908	D08202	I C E (50-500 HP) EM ELEC GEN-DIESEL
277677	D71638	I C E (>500 HP) EM ELEC GEN DIESEL
277678	D71639	I C E (>500 HP) EM ELEC GEN DIESEL
334804	F10748	I C E (>500 HP) EM ELEC GEN DIESEL
334805	F10749	I C E (>500 HP) EM ELEC GEN DIESEL
348570	F18403	I C E (50-500 HP) EM ELEC GEN-DIESEL
435937	F73156	I C E (50-500 HP) EM ELEC GEN-DIESEL
456510	F81875	I C E (50-500 HP) EM ELEC GEN DIESEL
459899	F95797	BOILER (>20-50 MMBTU/HR) COMB GAS-DISTIL
478849	G3941	CREMATORY
480890	G3942	CREMATORY
480391	F99255	TURBINE ENGINE ≤ 50 MW NAT GAS - DIST
480393	F99256	TURBINE ENGINE ≤ 50 MW NAT GAS - DIST
494678	G7654	I C E (>500 HP) EM ELEC GEN-DIESEL
494679	G3943	I C E (50-500 HP) EM ELEC GEN-DIESEL
505687	G7398	I C E (>500 HP) EM ELEC GEN-DIESEL

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGELMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.
[RULE 401]

2. THE OPERATOR SHALL NOT USE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2, RULE 1470]

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PERMIT TO OPERATE

**Permit No. D03504
A/N 139146**

Equipment Description:

INCINERATOR, PATHOLOGICAL, MULTIPLE CHAMBER, ECOLAIRE E.C.P. INC., MODEL 100 PWI, 100 POUNDS PER HOUR CAPACITY, 6' DIA X 8' H (PRIMARY CHAMBER), 4'-6" DIA X 8' L, SECONDARY CHAMBER WITH TWO 800,000 BTU/HR PRIMARY GAS BURNERS WITH A 1.3 HP UNDERFIRE BLOWER AND A 1,200,000 BTU PER HOUR SECONDARY GAS BURNER WITH A 3 HP BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BURN ANY CHLORINATED MATERIALS, INCLUDING BUT NOT LIMITED TO PLASTICS, PACKAGING, TEXTILES, FABRIC, CONTAINERS, TUBING OR ANY OTHER GENERAL REFUSE THAT MAY CONTAIN, OR MAY BE CONTAMINATED WITH, CHLORINATED COMPOUNDS.
[RULE 1406]
4. THE TOTAL QUANTITY OF MATERIAL CHARGED TO THIS INCINERATOR SHALL NOT EXCEED 100 POUNDS PER HOUR OR 800 POUNDS PER DAY.
[RULE 1303(b)(2)-OFFSET]
5. A TEMPERATURE OF NOT LESS THAN 2000 DEGREES F SHALL BE MAINTAINED IN THE AFTERBURNER CHAMBER WHEN THE INCINERATOR IS IN OPERATION.
[RULE 1303(a)-BACT]
6. THE CHARGING DOOR SHALL REMAIN CLOSED EXCEPT DURING CHARGING.
[RULE 1303(a)-BACT]
7. THE PRIMARY GAS BURNER SHALL AUTOMATICALLY SHUT OFF WHEN THE CHARGING DOOR IS OPENED.
[RULE 1303(a)-BACT]
8. THE EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES AND OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 1303(a)-BACT]

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9. COMPLETE RECORDS OF THE AMOUNT OF MATERIAL PROCESSED PER DAY IN THIS INCINERATOR SHALL BE MAINTAINED IN A FORM APPROVED IN WRITING BY THE EXECUTIVE OFFICER. SUCH RECORDS SHALL BE MAINTAINED FOR A PERIOD OF NOT LESS THAN FIVE YEARS AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.
[RULE 1303(a)-BACT]
10. THIS UNIT SHALL OPERATE AS A CO-FIRED COMBUSTOR AND SHALL BE LIMITED TO BURNING MEDICAL/INFECTIOUS WASTE, AS DEFINED IN 40 CFR 62.14490, THAT IS LESS THAN 10 PERCENT OF THE WEIGHT OF WHICH IS COMPRISED, IN AGGREGATE, OF THE MATERIAL BURNED IN THE INCINERATOR. THE PERCENTAGE SHALL BE MEASURED ON A CALENDAR QUARTER BASIS.
[40 CFR SUBPART Ce]
11. THE FACILITY SHALL MAINTAIN RECORDS ON A CALENDAR QUARTER BASIS OF THE WEIGHT OF MATERIAL PROCESSED AND THE WEIGHT OF THE MEDICAL/INFECTIOUS WASTE COMBUSTED TO DEMONSTRATE THAT THE UNIT CONTINUES TO MEET THE DEFINITION OF A CO-FIRED COMBUSTOR IN 40 CFR 62.14490.
[40 CFR SUBPART Ce]
12. THIS EQUIPMENT SHALL COMPLY WITH RULE 1147.
[RULE 1147]

Periodic Monitoring:

10. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A MONTHLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE MONTHLY PERIOD. THE ROUTINE MONTHLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
 - A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
 - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

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D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

Emissions And Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: 0.1 GR/SCF RULE 473
CO: 2000 PPMV, RULE 407
SOX: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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**Permit No. M56895
A/N 144646**

Equipment Description:

EMERGENCY ELECTRIC POWER GENERATION SYSTEM CONSISTING OF:

1. DIESEL ENGINE, CATERPILLAR 3516-STD, S/N 2520076, 2520 HP, WITH TURBOCHARGER, AFTERCOOLED SYSTEM, AND RETARD IGNITION.
2. ELECTRIC GENERATOR, CATERPILLAR 3516, 1759 K.W. STANDBY RATING.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 30 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

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6. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

Periodic Monitoring:

7. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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PERMIT TO OPERATE

**Permit No. D09075
A/N 176594**

Equipment Description:

INTERNAL COMBUSTION ENGINE, GM DIESEL, DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 7163-7000 SERIAL NO. 16VA1331, 16 CYLINDERS, TWO CYCLE, NATURALLY ASPIRATED, 466 BHP, WITH ONE EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE IGNITION TIMING OF THIS ENGINE MUST BE INSPECTED, ADJUSTED, AND CERTIFIED, AT A MINIMUM, ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS, AND CERTIFICATIONS MUST BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 1303(a)(1)-BACT]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 30 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. OPERATION BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT

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PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

7. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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**Permit No. D08202
A/N 178908**

Equipment Description:

INTERNAL COMBUSTION ENGINE, ALLIS CHALMERS, DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 5000, SERIAL NO. 1-7451-66208, 6 CYLINDERS, FOUR CYCLE, TURBOCHARGED, INTERCOOLED, 460 BHP, WITH ONE EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE IGNITION TIMING OF THIS ENGINE MUST BE INSPECTED, ADJUSTED, AND CERTIFIED, AT A MINIMUM, ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS, AND CERTIFICATIONS MUST BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 1303(a)(1)-BACT]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 30 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. OPERATION BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT

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PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

7. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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**Permit No. D71638
A/N 277677**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. 3508, SERIAL NO. 23Z01443, DIESEL FUELED, EMERGENCY, ELECTRICAL GENERATOR DRIVER, TURBOCHARGED, AFTERCOOLED, 8 CYLINDERS, 1344 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 30 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]
6. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

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7. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

PERMIT TO OPERATE

**Permit No. D71639
A/N 277678**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. 3508, SERIAL NO. 23Z01442, DIESEL FUELED, EMERGENCY, ELECTRICAL GENERATOR DRIVER, TURBOCHARGED, AFTERCOOLED, 8 CYLINDERS, 1344 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 30 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]
6. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

7. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

PERMIT TO OPERATE

**Permit No. F10748
A/N 334804**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. 3508 DITA (900 KW), SERIAL NO. 23Z07043, 8 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 1337 BHP, DIESEL FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 50 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 50 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]
6. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

7. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN REQUIREMENTS TO COMPLY WITH SCAQMD CERTIFIED EQUIPMENT.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

PERMIT TO OPERATE

**Permit No. F10749
A/N 334805**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. 3508 DITA (900 KW), SERIAL NO. 23Z07079, 8 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 1337 BHP, DIESEL FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 50 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 50 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]
6. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

7. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN REQUIREMENTS TO COMPLY WITH SCAQMD CERTIFIED EQUIPMENT.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTING ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

PERMIT TO OPERATE

**Permit No. F18403
A/N 348570**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. 3208 ATAAC, 8 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 292 BHP, DIESEL FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 30 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 50 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]
6. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

Periodic Monitoring:

7. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. F73156
A/N 435937**

Equipment Description:

(located at Del Webb Library)

INTERNAL COMBUSTION ENGINE, PERKINS, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. GCD325, TURBOCHARGED, AFTERCOOLED, 6 CYLINDERS, FOUR CYCLE, 325 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN A YEAR WHICH INCLUDES NO MORE THAN 50 HOURS FOR PERFORMANCE AND MAINTENANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 50 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

6. THIS ENGINE SHALL COMPLY WITH RULE 1470.
[RULE 1470]

Periodic Monitoring:

7. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2.6 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
NO_x + NMHC: 4.8 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
PM: 0.15 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

PERMIT TO OPERATE

**Permit No. F81875
A/N 456510**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. 3306 ATAAC, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, TURBOCHARGED, AFTERCOOLED, 377 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NO MORE THAN 50 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION OF THIS ENGINE. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (BOTH MANUAL AND AUTOMATIC) FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED ANYTIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

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6. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR THE GRID OPERATOR.

[RULE 1303(a)(1)-BACT]

7. THIS ENGINE SHALL COMPLY WITH RULE 1470.

[RULE 1470]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.

[RULE 3004 (a)(4)]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 8.5 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT

NOx: 6.9 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT

PM₁₀: 0.38 GRAM/BHP-HR, RULE 1303(a)(1)-BACT

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

ROG: 1.0 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

PERMIT TO OPERATE

**Permit No. F95797
A/N 459899**

Equipment Description:

BOILER, MURRAY-TRANE, WATERTUBE TYPE, MODEL NO. WBDA-3-57, SERIAL NO. 10786, WITH ONE BURNER, COEN COMPANY, MODEL NO. DAZ, NATURAL GAS FIRED, WITH AMBER 363 FUEL OIL STANDBY, RATED AT 49,000,000 BTU/HR, AND EQUIPPED WITH FLUE GAS RECIRCULATION.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING TESTING, MAINTENANCE, NATURAL GAS CURTAILMENT OR AN EMERGENCY EVENT, AT WHICH TIME AMBER 363 FUEL OIL MAY BE USED.
[RULE 1303(b)(2)-OFFSET]
4. THE OPERATOR SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]
5. WHEN FIRING ON NATURAL GAS, THIS BOILER SHALL NOT EMIT MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 400 PPM OF CARBON MONOXIDE, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂ AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.

WHEN FIRING ON AMBER 363 FUEL OIL, THIS BOILER SHALL NOT EMIT MORE THAN 40 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 400 PPM OF CARBON MONOXIDE, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂ AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1146]
6. WHENEVER THE BOILER IS FIRED USING NATURAL GAS, THE USE OF THIS FUEL SHALL NOT EXCEED 190,476,190 CUBIC FEET IN ANY ONE CALENDAR YEAR.
[RULE 1146]
7. WHENEVER THE BOILER IS FIRED USING AMBER 363 FUEL OIL, THE USE OF THIS FUEL SHALL NOT EXCEED 783,285 GALLONS IN ANY ONE CALENDAR YEAR.
[RULE 1146]

FACILITY PERMIT TO OPERATE LOMA LINDA UNIV

8. THE AMBER 363 FUEL OIL SUPPLIED TO THE BURNER SHALL CONTAIN NO MORE THAN 0.0015 PERCENT BY WEIGHT SULFUR.
[RULE 431.2]
9. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE A YEAR ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE.
[RULE 1146]

Periodic Monitoring:

10. THE OPERATOR SHALL INSTALL AND MAINTAIN NON-RESETTABLE TOTALIZING FUEL FLOW METERS TO MEASURE THE VOLUME OF NATURAL GAS USED IN CUBIC FEET AND THE VOLUME OF AMBER 363 FUEL OIL USED IN GALLONS.
[RULE 3004(a)(4)-Periodic Monitoring]
11. RECORDS OF FUEL USAGE, ADJUSTMENTS, TUNE-UPS AND CALIBRATIONS AS STATED IN CONDITION NOS. 6, 7, 9 AND 10 SHALL BE KEPT FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. [RULE 3004(a)(4)-Periodic Monitoring]
12. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER MANUFACTURER SPECIFICATIONS. RECORDS SHALL BE MAINTAINED FOR THE INSPECTIONS AND MAINTENANCE OF THE BURNER.
[RULE 3004(a)(4)-Periodic Monitoring]
13. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)-Periodic Monitoring]
14. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NO_x EMISSION LIMIT BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY YEAR USING AQMD METHOD 100.1 OR 7.1. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004(a)(4)-Periodic Monitoring]
15. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY YEAR USING AQMD METHOD 100.1 OR 10.1. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004(a)(4)-Periodic Monitoring]

[RULE 3004(a)(4)-Periodic Monitoring]

FACILITY PERMIT TO OPERATE LOMA LINDA UNIV

16. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF AMBER 363 FUEL OIL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATE(S) THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTION(S) TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATION RECORD BY A CERTIFIED SMOKE READER.
- [RULE 3004(a)(4)-Periodic Monitoring]

17. IF ANNUAL AMBER 363 FUEL OIL USAGE EXCEEDS 2,000,000 GALLONS IN ANY ONE YEAR, THEN OPERATOR SHALL DETERMINE COMPLIANCE WITH THE PARTICULATE MATTER (PM) EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 5.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 409 LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 409 LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.
- [RULE 3004(a)(4)-Periodic Monitoring]

18. FOR UNITS WITH A HEAT INPUT GREATER THAN 10 MMBTU/HR AND ANNUAL AMBER 363 FUEL OIL USAGE GREATER THAN 1,000,000 GALLONS, OR GREATER THAN 336 HOURS OF OPERATION

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BUT NOT EXCEEDING 2,000,000 GALLONS IN ANY ONE YEAR, OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.
THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.
[RULE 3004(a)(4)-Periodic Monitoring]

Emissions And Requirements:

19. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 30 PPMV, RULE 1146, NATURAL GAS
NOx: 40 PPMV, RULE 1146, FUEL OIL
CO: 400 PPMV, RULE 1146
CO: 2000 PPMV, RULE 407
SOX: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

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PERMIT TO CONSTRUCT/OPERATE

**Permit No. G3941
A/N 478849**

Equipment Description:

CREMATORY, NO. 1, AMERICAN CREMATORY, MODEL A-200HT, WITH A 500,000 BTU PER HOUR, NATURAL GAS FIRED, ECLIPSE THERMJET, MODEL, TJ0050, PRIMARY BURNER, A 1,000,000 BTU PER HOUR, NATURAL GAS FIRED, ECLIPSE THERMJET, MODEL, TJ0100, SECONDARY CHAMBER BURNER, AND A 5 H.P. COMBUSTION AIR BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE USED ONLY TO CREMATE HUMAN ANATOMICAL PARTS OR WHOLE BODIES.
[RULE 1303 (b)(2)-OFFSET]
4. THE SECONDARY CHAMBER BURNER SHALL BE USED THROUGHOUT THE PREHEATING AND CREMATION CYCLE.
[RULE 1303 (a)-BACT]
5. A TEMPERATURE OF NOT LESS THAN 1500 DEGREES FAHRENHEIT SHALL BE MAINTAINED IN THE SECONDARY CHAMBER WHEN THE PRIMARY CHAMBER IS IN OPERATION.
[RULE 1303 (a)-BACT]
6. A TEMPERATURE INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE SECONDARY CHAMBER.
[RULE 1303 (a)-BACT]
7. THE TEMPERATURE INDICATING AND RECORDING DEVICE LOCATED IN THE SECONDARY CHAMBER SHALL MEASURE THE TEMPERATURE ON A CONTINUOUS BASIS. THE INSTRUMENT SHALL BE CALIBRATED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS ON AN ANNUAL BASIS.
[RULE 1303 (a)-BACT]
8. THE MAXIMUM THROUGHPUT OF THE CREMATORY SHALL NOT EXCEED 9,167 POUNDS OF ANATOMICAL PARTS AND HUMAN BODIES IN ANY ONE MONTH.
[RULE 1303 (b)(2)-OFFSET, RULE 1401]

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9. THE MAXIMUM NATURAL GAS FUEL USAGE OF THE CREMATORY SHALL NOT EXCEED 130,957 SCF IN ANY ONE MONTH.
[RULE 1303 (b)(2)-OFFSET, RULE 1401]
10. THE OPERATOR SHALL MEASURE AND RECORD THE WEIGHT OF EACH CHARGE OF HUMAN ANATOMICAL PARTS AND BODIES PRIOR TO INCINERATION.
[RULE 1303 (b)(2)-OFFSET, RULE 1401]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN A DEDICATED TOTALIZING FUEL FLOW METER, WITH AN ACCURACY OF +/- 5%, TO CONTINUOUSLY MEASURE THE NATURAL GAS FUEL USAGE BEING SUPPLIED TO THE CREMATORY. THE INSTRUMENT SHALL BE CALIBRATED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS ON AN ANNUAL BASIS. A COMPUTER THAT COLLECTS, SUMS, AND STORES ELECTRONIC DATA FROM CONTINUOUS FUEL FLOW METERS IS AN ACCEPTABLE TOTALIZER. THE TOTALIZING FUEL FLOW METER MUST CONTINUOUSLY OPERATE WHEN THE UNIT IS OPERATING.
[RULE 1303 (b)(2)-OFFSET]
12. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT FOR THE FOLLOWING PARAMETERS OR ITEMS:
- A. MASS OF HUMAN ANATOMICAL PARTS AND BODIES INCINERATED.
 - B. NATURAL GAS FUEL USAGE OF THE CREMATORY.
 - C. NAME AND CONTACT INFORMATION OF PERSONNEL OPERATING THE CREMATORY.
 - D. CALIBRATION RECORDS FOR TEMPERATURE AND FUEL FLOW MONITORING DEVICES.
- RECORDS SHALL BE RETAINED FOR A PERIOD OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)-BACT, RULE 1303 (b)(2)-OFFSET, RULE 1401]

Periodic Monitoring:

13. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A MONTHLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE MONTHLY PERIOD. THE ROUTINE MONTHLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR

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- C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

Emissions And Requirements:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: 0.1 GR/SCF, RULE 409
PM: 0.1 GR/SCF RULE 473
CO: 2000 PPMV, RULE 407

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PERMIT TO CONSTRUCT/OPERATE

**Permit No. G3942
A/N 480890**

Equipment Description:

CREMATORY, NO. 2, AMERICAN CREMATORY, MODEL A-200HT, WITH A 500,000 BTU PER HOUR, NATURAL GAS FIRED, ECLIPSE THERMJET, MODEL, TJ0050, PRIMARY BURNER, A 1,000,000 BTU PER HOUR, NATURAL GAS FIRED, ECLIPSE THERMJET, MODEL, TJ0100, SECONDARY CHAMBER BURNER, AND A 5 H.P. COMBUSTION AIR BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE USED ONLY TO CREMATE HUMAN ANATOMICAL PARTS OR WHOLE BODIES.
[RULE 1303 (b)(2)-OFFSET]
4. THE SECONDARY CHAMBER BURNER SHALL BE USED THROUGHOUT THE PREHEATING AND CREMATION CYCLE.
[RULE 1303 (a)-BACT]
5. A TEMPERATURE OF NOT LESS THAN 1500 DEGREES FAHRENHEIT SHALL BE MAINTAINED IN THE SECONDARY CHAMBER WHEN THE PRIMARY CHAMBER IS IN OPERATION.
[RULE 1303 (a)-BACT]
6. A TEMPERATURE INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE SECONDARY CHAMBER.
[RULE 1303 (a)-BACT]
7. THE TEMPERATURE INDICATING AND RECORDING DEVICE LOCATED IN THE SECONDARY CHAMBER SHALL MEASURE THE TEMPERATURE ON A CONTINUOUS BASIS. THE INSTRUMENT SHALL BE CALIBRATED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS ON AN ANNUAL BASIS.
[RULE 1303 (a)-BACT]
8. THE MAXIMUM THROUGHPUT OF THE CREMATORY SHALL NOT EXCEED 9,167 POUNDS OF ANATOMICAL PARTS AND HUMAN BODIES IN ANY ONE MONTH.
[RULE 1303 (b)(2)-OFFSET, RULE 1401]

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9. THE MAXIMUM NATURAL GAS FUEL USAGE OF THE CREMATORY SHALL NOT EXCEED 130,957 SCF IN ANY ONE MONTH.
[RULE 1303 (b)(2)-OFFSET, RULE 1401]
10. THE OPERATOR SHALL MEASURE AND RECORD THE WEIGHT OF EACH CHARGE OF HUMAN ANATOMICAL PARTS AND BODIES PRIOR TO INCINERATION.
[RULE 1303 (b)(2)-OFFSET, RULE 1401]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN A DEDICATED TOTALIZING FUEL FLOW METER, WITH AN ACCURACY OF +/- 5%, TO CONTINUOUSLY MEASURE THE NATURAL GAS FUEL USAGE BEING SUPPLIED TO THE CREMATORY. THE INSTRUMENT SHALL BE CALIBRATED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS ON AN ANNUAL BASIS. A COMPUTER THAT COLLECTS, SUMS, AND STORES ELECTRONIC DATA FROM CONTINUOUS FUEL FLOW METERS IS AN ACCEPTABLE TOTALIZER. THE TOTALIZING FUEL FLOW METER MUST CONTINUOUSLY OPERATE WHEN THE UNIT IS OPERATING.
[RULE 1303 (b)(2)-OFFSET]
12. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT FOR THE FOLLOWING PARAMETERS OR ITEMS:
- A. MASS OF HUMAN ANATOMICAL PARTS AND BODIES INCINERATED.
 - B. NATURAL GAS FUEL USAGE OF THE CREMATORY.
 - C. NAME AND CONTACT INFORMATION OF PERSONNEL OPERATING THE CREMATORY.
 - D. CALIBRATION RECORDS FOR TEMPERATURE AND FUEL FLOW MONITORING DEVICES.
- RECORDS SHALL BE RETAINED FOR A PERIOD OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)-BACT, RULE 1303 (b)(2)-OFFSET, RULE 1401]

Periodic Monitoring:

13. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A MONTHLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE MONTHLY PERIOD. THE ROUTINE MONTHLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR

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C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

D. STACK OR EMISSION POINT IDENTIFICATION;

E. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

F. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

G. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

Emissions And Requirements:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: 0.1 GR/SCF, RULE 409

PM: 0.1 GR/SCF RULE 473

CO: 2000 PPMV, RULE 407

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PERMIT TO OPERATE

**Permit No. F299255
A/N 480391**

Equipment Description:

COGENERATION SYSTEM NO. 1 CONSISTING OF:

1. GAS TURBINE, DETROIT DIESEL ALLISON, MODEL 501-KH, 59353000 BTU/HR, NATURAL GAS OR DIESEL FIRED WITH STEAM AND WATER INJECTION, DRIVING A 6054 KILOWATT ELECTRICAL GENERATOR.
2. SUPERHEATER, UNFIRED, 21780 LBS/HR, MAXIMUM STEAM OUTPUT.
3. DUCT BURNER, COEN, 44211000 BTU/HR, LOW NOX BURNER, NATURAL GAS FIRED ONLY.
4. WASTE HEAT BOILER, ABCO, 47000 LBS/HR MAXIMUM STEAM OUTPUT, WITH AN EVAPORATOR, ECONOMIZER AND FEEDWATER HEATER.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE DUCT BURNER SHALL BE ONLY FIRED WITH NATURAL GAS.
[RULE 1134, RULE 1303(a)(1)-BACT]
5. A CONTINUOUS MONITORING SYSTEM SHALL BE INSTALLED AND OPERATED TO MEASURE THE COMBINED GAS TURBINE AND DUCT BURNER EXHAUST FOR NOX AND O2 CONCENTRATIONS ON A DRY BASIS. THE SYSTEM SHALL ALSO CONVERT THE ACTUAL NOX CONCENTRATIONS TO CORRECTED NOX CONCENTRATIONS AT 15% OXYGEN ON A DRY BASIS AND CONTINUOUSLY RECORD THE DRY NOX CONCENTRATIONS, DRY OXYGEN CONCENTRATIONS AND CORRECTED NOX CONCENTRATIONS AT 15% OXYGEN DRY. IN ADDITION, THE SYTEM SHALL MONITOR AND RECORD THE DAILY NOX EMISSIONS IN POUNDS PER DAY FROM EACH COGENERATION SYSTEM. THIS SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF RULE 218.

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A REPORT SHALL BE SUBMITTED TO THE DISTRICT ON A MONTHLY BASIS. THIS MONTHLY REPORTS SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

1. DAY OF THE MONTH
 2. MONITOR "ON" HOURS
 3. GAS TURBINE OPERATING HOURS
 4. HOUR OF PEAK NOX
 5. MAXIMUM NOX EMISSIONS (PPMVD AT 15% O₂)
 6. MAXIMUM NOX EMISSIONS (POUNDS PER DAY)
 7. AVERAGE NOX EMISSIONS (PPMVD AT 15% O₂)
 8. AVERAGE NOX EMISSIONS (POUNDS PER DAY)
 9. TOTAL NOX EMISSIONS (POUNDS PER DAY)
 10. EXHAUST FLOW RATE (DSCFM)
 11. PERCENT OF DUCT BURNER FUEL
 12. ANY START UP, SHUTDOWN OR MALFUNCTION OF THE MONITOR
[RULE 1134, RULE 1303(b)(2)-OFFSET, RULE 218]
6. A CONTINUOUS MONITORING SYSTEM SHALL BE INSTALLED AND OPERATED TO MONITOR AND RECORD THE FUEL CONSUMPTION AND THE RATIO OF WATER TO FUEL BEING FIRED IN THE TURBINE. THIS SYSTEM SHALL BE ACCURATE TO WITHIN PLUS MINUS 5 PERCENT AND SHALL BE APPROVED BY THE EXECUTIVE OFFICER PRIOR TO INSTALLATION.
[RULE 1134, RULE 1303(b)(2)-OFFSET, RULE 218]
7. THE OPERATOR SHALL KEEP RECORDS OF RESULTS FROM THE MONITORS REQUIRED BY PERMIT CONDITION NOS. 5 AND 6. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST TO DISTRICT PERSONNEL.
[RULE 1134, RULE 1303(b)(2)-OFFSET]
8. WHEN FIRING DIESEL FUEL, EMISSIONS OF OXIDES OF NITROGEN AS NO₂ FROM THE COMBINED TURBINE AND DUCT BURNER EXHAUST SHALL NOT EXCEED 42 PPMV, CALCULATED DRY, AT 15% OXYGEN.
[RULE 1303(a)(1)-BACT]
9. WHEN FIRING NATURAL GAS, EMISSIONS OF OXIDES OF NITROGEN AS NO₂ FROM THE COMBINED TURBINE AND DUCT BURNER EXHAUST SHALL NOT EXCEED 21 PPMV, CALCULATED DRY, AT 15% OXYGEN.
[RULE 1134]
10. OXIDES OF SULFUR EMISSIONS REPORTED AS SO₂ FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 2 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 74 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED SOX EMISSIONS REPORTED AS SO₂ FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 3 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 136 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
11. OXIDES OF NITROGEN EMISSIONS REPORTED AS NO₂ FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 191 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 229 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED NOX

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- EMISSIONS REPORTED AS NO2 FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 282 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 339 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
12. CARBON MONOXIDE EMISSIONS FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 182 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 466 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED CO EMISSIONS FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 211 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 552 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
13. ORGANIC EMISSIONS FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 36 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 36 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED ORGANIC EMISSIONS FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 72 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 72 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
14. PARTICULATE EMISSIONS FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 36 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 62 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED PARTICULATE EMISSIONS FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 72 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 125 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
15. DIESEL FUEL MAY BE BURNED IN THE TURBINE ONLY IN THE EVENT OF A NATURAL GAS CURTAILMENT OR IN THE EVENT OF AN EMERGENCY FAILURE OR MAINTENANCE REQUIREMENTS OF THE NATURAL GAS DELIVERY SYSTEM FOR BOILER TESTING WHICH IS NOT TO EXCEED ONE HALF HOUR PER MONTH.
[RULE 1303(b)(2)-OFFSET]
16. DAILY RECORDS OF DIESEL FUEL CONSUMPTION SHALL BE MAINTAINED AND MADE AVAILABLE UPON REQUEST TO DISTRICT PERSONNEL.
[RULE 1303(b)(2)-OFFSET]
17. THE MAXIMUM TOTAL QUANTITY OF NATURAL GAS USED IN ANY ONE HOUR SHALL NOT EXCEED 56530 CUBIC FEET FOR THE GAS TURBINE AND 42110 CUBIC FEET FOR THE DUCT BURNER.
[RULE 1303(b)(2)-OFFSET]
18. THE BOILER REFERENCED IN PERMIT NO. F32184 (A/N 252359) MAY BE IN OPERATION WHEN ONLY ONE OF THE COGENERATION SYSTEMS NO. 1 OR 2 IS OPERATING.
[RULE 1303(b)(2)-OFFSET]
19. WHEN BOTH COGENERATION SYSTEM NOS. 1 AND 2 ARE IN SIMULTANEOUS OPERATION, THE BOILER REFERENCED IN PERMIT NO. F32184 (A/N 252359) CANNOT BE OPERATED.

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[RULE 1303(b)(2)-OFFSET]

20. RECORDS OF DAILY OPERATION OF THE EXISTING BOILER AND THE COGENERATION SYSTEMS SHALL BE MAINTAINED BY LOMA LINDA UNIVERSITY AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.
[RULE 1303(b)(2)-OFFSET]

Periodic Monitoring:

21. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO MASS EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE MASS EMISSION LIMITS IN CONDITION NO. 11. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
22. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT ON AN ANNUAL BASIS WHENEVER THIS EQUIPMENT IS FIRED ON FUEL OIL FOR TRAINING/TESTING PURPOSE; AND AFTER EVERY 400 CUMULATIVE HOURS OF OPERATION ON DIESEL FUEL OR AFTER EVERY TWO MILLION GALLONS OF DIESEL FUEL COMBUSTED, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.
- IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:
- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATION RECORD BY A CERTIFIED SMOKE READER.
- [RULE 3004 (a)(4)]

23. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

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- A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE DURING THE LIFE OF THE PERMIT.
- B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE PARTICULATE EMISSIONS USING EPA METHOD 5.2 MEASURED OVER A 60 MINUTE AVERAGING TIME PERIOD.
- C. THE TEST SHALL BE CONDUCTED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 13 (NATURAL GAS ONLY).

[RULE 3004 (a)(4)]

Emissions And Requirements:

24. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 42 PPMV, RULE 1303(a)(1)-BACT
NOx: 21 PPMV, RULE 1134
CO: 2000 PPMV, RULE 407
SOx: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
SOx: 2 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
SOx: 3 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
SOx: 74 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
SOx: 136 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
NOx: 191 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
NOx: 282 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
NOx: 229 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
NOx: 339 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
CO: 182 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
CO: 211 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
CO: 466 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
CO: 552 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
ROG: 36 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
ROG: 72 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
ROG: 36 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
ROG: 72 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
PM: 36 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
PM: 72 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
PM: 62 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
PM: 125 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
NOx: 150 PPM, 40 CFR60 SUBPART GG
SOx: 150 PPM, 40 CFR60 SUBPART GG

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PERMIT TO OPERATE

**Permit No. F99256
A/N 480393**

Equipment Description:

COGENERATION SYSTEM NO. 2 CONSISTING OF:

1. GAS TURBINE, DETROIT DIESEL ALLISON, MODEL 501-KH, 59353000 BTU/HR, NATURAL GAS OR DIESEL FIRED WITH STEAM AND WATER INJECTION, DRIVING A 6054 KILOWATT ELECTRICAL GENERATOR.
2. SUPERHEATER, UNFIRED, 21780 LBS/HR, MAXIMUM STEAM OUTPUT.
3. DUCT BURNER, COEN, 44211000 BTU/HR, LOW NOX BURNER, NATURAL GAS FIRED ONLY.
4. WASTE HEAT BOILER, ABCO, 47000 LBS/HR MAXIMUM STEAM OUTPUT, WITH AN EVAPORATOR, ECONOMIZER AND FEEDWATER HEATER.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE DUCT BURNER SHALL BE ONLY FIRED WITH NATURAL GAS.
[RULE 1134, RULE 1303(a)(1)-BACT]
5. A CONTINUOUS MONITORING SYSTEM SHALL BE INSTALLED AND OPERATED TO MEASURE THE COMBINED GAS TURBINE AND DUCT BURNER EXHAUST FOR NOX AND O2 CONCENTRATIONS ON A DRY BASIS. THE SYSTEM SHALL ALSO CONVERT THE ACTUAL NOX CONCENTRATIONS TO CORRECTED NOX CONCENTRATIONS AT 15% OXYGEN ON A DRY BASIS AND CONTINUOUSLY RECORD THE DRY NOX CONCENTRATIONS, DRY OXYGEN CONCENTRATIONS AND CORRECTED NOX CONCENTRATIONS AT 15% OXYGEN DRY. IN ADDITION, THE SYSTEM SHALL MONITOR AND RECORD THE DAILY NOX EMISSIONS IN POUNDS PER DAY FROM EACH COGENERATION SYSTEM. THIS SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF RULE 218.

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A REPORT SHALL BE SUBMITTED TO THE DISTRICT ON A MONTHLY BASIS. THIS MONTHLY REPORTS SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

1. DAY OF THE MONTH
 2. MONITOR "ON" HOURS
 3. GAS TURBINE OPERATING HOURS
 4. HOUR OF PEAK NOX
 5. MAXIMUM NOX EMISSIONS (PPMVD AT 15% O₂)
 6. MAXIMUM NOX EMISSIONS (POUNDS PER DAY)
 7. AVERAGE NOX EMISSIONS (PPMVD AT 15% O₂)
 8. AVERAGE NOX EMISSIONS (POUNDS PER DAY)
 9. TOTAL NOX EMISSIONS (POUNDS PER DAY)
 10. EXHAUST FLOW RATE (DSCFM)
 11. PERCENT OF DUCT BURNER FUEL
 12. ANY START UP, SHUTDOWN OR MALFUNCTION OF THE MONITOR
[RULE 1134, RULE 1303(b)(2)-OFFSET, RULE 218]
6. A CONTINUOUS MONITORING SYSTEM SHALL BE INSTALLED AND OPERATED TO MONITOR AND RECORD THE FUEL CONSUMPTION AND THE RATIO OF WATER TO FUEL BEING FIRED IN THE TURBINE. THIS SYSTEM SHALL BE ACCURATE TO WITHIN PLUS MINUS 5 PERCENT AND SHALL BE APPROVED BY THE EXECUTIVE OFFICER PRIOR TO INSTALLATION.
[RULE 1134, RULE 1303(b)(2)-OFFSET, RULE 218]
7. THE OPERATOR SHALL KEEP RECORDS OF RESULTS FROM THE MONITORS REQUIRED BY PERMIT CONDITION NOS. 5 AND 6. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST TO DISTRICT PERSONNEL.
[RULE 1134, RULE 1303(b)(2)-OFFSET]
8. WHEN FIRING DIESEL FUEL, EMISSIONS OF OXIDES OF NITROGEN AS NO₂ FROM THE COMBINED TURBINE AND DUCT BURNER EXHAUST SHALL NOT EXCEED 42 PPMV, CALCULATED DRY, AT 15% OXYGEN.
[RULE 1303(a)(1)-BACT]
9. WHEN FIRING NATURAL GAS, EMISSIONS OF OXIDES OF NITROGEN AS NO₂ FROM THE COMBINED TURBINE AND DUCT BURNER EXHAUST SHALL NOT EXCEED 21 PPMV, CALCULATED DRY, AT 15% OXYGEN.
[RULE 1134]
10. OXIDES OF SULFUR EMISSIONS REPORTED AS SO₂ FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 2 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 74 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED SOX EMISSIONS REPORTED AS SO₂ FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 3 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 136 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
11. OXIDES OF NITROGEN EMISSIONS REPORTED AS NO₂ FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 191 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 229 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED NOX

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- EMISSIONS REPORTED AS NO2 FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 282 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 339 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
12. CARBON MONOXIDE EMISSIONS FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 182 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 466 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED CO EMISSIONS FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 211 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 552 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
13. ORGANIC EMISSIONS FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 36 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 36 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED ORGANIC EMISSIONS FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 72 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 72 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
14. PARTICULATE EMISSIONS FROM THIS COGENERATION PERMIT UNIT SHALL NOT EXCEED 36 POUNDS PER DAY WHILE THE TURBINE IS FIRING NATURAL GAS AND 62 POUNDS PER DAY WHILE THE TURBINE IS FIRING DIESEL FUEL. THE COMBINED PARTICULATE EMISSIONS FROM COGENERATION SYSTEM NUMBERS 1 AND 2 SHALL NOT EXCEED 72 POUNDS PER DAY WHILE THE TURBINES ARE FIRING NATURAL GAS AND 125 POUNDS PER DAY WHILE THE TURBINES ARE FIRING DIESEL FUEL.
[RULE 1303(b)(2)-OFFSET]
15. DIESEL FUEL MAY BE BURNED IN THE TURBINE ONLY IN THE EVENT OF A NATURAL GAS CURTAILMENT OR IN THE EVENT OF AN EMERGENCY FAILURE OR MAINTENANCE REQUIREMENTS OF THE NATURAL GAS DELIVERY SYSTEM FOR BOILER TESTING WHICH IS NOT TO EXCEED ONE HALF HOUR PER MONTH.
[RULE 1303(b)(2)-OFFSET]
16. DAILY RECORDS OF DIESEL FUEL CONSUMPTION SHALL BE MAINTAINED AND MADE AVAILABLE UPON REQUEST TO DISTRICT PERSONNEL.
[RULE 1303(b)(2)-OFFSET]
17. THE MAXIMUM TOTAL QUANTITY OF NATURAL GAS USED IN ANY ONE HOUR SHALL NOT EXCEED 56530 CUBIC FEET FOR THE GAS TURBINE AND 42110 CUBIC FEET FOR THE DUCT BURNER.
[RULE 1303(b)(2)-OFFSET]
18. THE BOILER REFERENCED IN PERMIT NO. F32184 (A/N 252359) MAY BE IN OPERATION WHEN ONLY ONE OF THE COGENERATION SYSTEMS NO. 1 OR 2 IS OPERATING.
[RULE 1303(b)(2)-OFFSET]
19. WHEN BOTH COGENERATION SYSTEM NOS. 1 AND 2 ARE IN SIMULTANEOUS OPERATION, THE BOILER REFERENCED IN PERMIT NO. F32184 (A/N 252359) CANNOT BE OPERATED.

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[RULE 1303(b)(2)-OFFSET]

20. RECORDS OF DAILY OPERATION OF THE EXISTING BOILERS AND THE COGENERATION SYSTEMS SHALL BE MAINTAINED BY LOMA LINDA UNIVERSITY AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.

[RULE 1303(b)(2)-OFFSET]

Periodic Monitoring:

21. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE EMISSION LIMITS IN CONDITION NO. 11. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

22. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT ON AN ANNUAL BASIS WHENEVER THIS EQUIPMENT IS FIRED ON FUEL OIL FOR TRAINING/TESTING PURPOSE; AND AFTER EVERY 400 CUMULATIVE HOURS OF OPERATION ON DIESEL FUEL OR AFTER EVERY TWO MILLION GALLONS OF DIESEL FUEL COMBUSTED, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
D. VISIBLE EMISSION OBSERVATION RECORD BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

23. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

- A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE DURING THE LIFE OF THE PERMIT.

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- B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE PARTICULATE EMISSIONS USING EPA METHOD 5.2 MEASURED OVER A 60 MINUTE AVERAGING TIME PERIOD.
- C. THE TEST SHALL BE CONDUCTED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 13 (NATURAL GAS ONLY).
[RULE 3004 (a)(4)]

Emissions And Requirements:

24. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 42 PPMV, RULE 1303(a)(1)-BACT
NOx: 21 PPMV, RULE 1134
CO: 2000 PPMV, RULE 407
SOx: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
SOx: 2 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
SOx: 3 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
SOx: 74 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
SOx: 136 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
NOx: 191 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
NOx: 282 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
NOx: 229 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
NOx: 339 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
CO: 182 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
CO: 211 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
CO: 466 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
CO: 552 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
ROG: 36 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
ROG: 72 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
ROG: 36 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
ROG: 72 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
PM: 36 LBS/DAY (ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
PM: 72 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON NATURAL GAS), RULE 1303(b)(2)-OFFSET
PM: 62 LBS/DAY (ON DIESEL), RULE 1303(b)(2)-OFFSET
PM: 125 LBS/DAY (COMBINED COGEN UNITS 1 &2, ON DIESEL), RULE 1303(b)(2)-OFFSET
NOx: 150 PPM, 40 CFR60 SUBPART GG
SOx: 150 PPM, 40 CFR60 SUBPART GG

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PERMIT TO CONSTRUCT/OPERATE

**Permit No. G7654
A/N 494678**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL C-27, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, RATED AT 998 BHP, EQUIPPED WITH A DIESEL PARTICULATE FILTER, CLEANAIR SYSTEMS, MODEL PERMIT, AND A BACKPRESSURE MONITOR, DATA LOGGER AND ALARM SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NO MORE THAN 50 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1304(a)-MODELING, RULE 1110.2, RULE 1470]
4. ENGINE OPERATION FOR MAINTENANCE AND TESTING PURPOSES SHALL NOT EXCEED 4.2 HOURS IN ANY ONE MONTH.
[RULE 1303(b)(2)-OFFSET]
5. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
6. THE ENGINE SHALL NOT BE OPERATED FOR NON-EMERGENCY USE BETWEEN THE HOURS OF 7:30 A.M. AND 3:30 P.M. ON DAYS WHEN SCHOOL IS IN SESSION.
[RULE 1470]

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7. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO A DIESEL PARTICULATE FILTER SYSTEM WHICH IS IN FULL OPERATION AND IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 1470]
8. THIS ENGINE SHALL NOT BE OPERATED IN IDLE MODE FOR MORE THAN 240 CONSECUTIVE MINUTES.
[RULE 1470]
9. THE OPERATOR SHALL INSTALL A BACKPRESSURE AND TEMPERATURE MONITOR AND ALARM SYSTEM THAT CONTINUOUSLY RECORDS AND DATA LOGS THE TEMPERATURE AND BACKPRESSURE OF THE EXHAUST AS WELL AS DATE AND TIME OF EQUIPMENT OPERATION.
[RULE 1470]
10. THE BACKPRESSURE AND TEMPERATURE MONITOR AND ALARM SYSTEM SHALL BE PROGRAMMED TO INTERFACE WITH THE ENGINE CONTROL SYSTEM TO AUTOMATICALLY SHUT THE ENGINE DOWN WHENEVER THE BACKPRESSURE EXCEEDS THE MAXIMUM BACKPRESSURE SETTING SPECIFIED BY THE FILTER MANUFACTURER.
[RULE 1470]
11. THE ALARM SYSTEM SHALL BE CAPABLE OF NOTIFYING THE OPERATOR WHEN HIGH BACKPRESSURE IS APPROACHED THROUGH VISUAL WARNING LIGHTS, SOUNDING AN AUDIBLE ALARM, OR BE SENDING A REMOTE ALARM SIGNAL TO THE OPERATOR.
[RULE 1470]
12. THE OPERATOR SHALL REGENERATE THE DIESEL PARTICULATE FILTER AFTER EVERY 10 COLD START-UPS OR WHENEVER THE BACKPRESSURE MONITOR AND ALARM SYSTEM DISPLAYS A WARNING SIGNAL, SOUNDS AN AUDIBLE ALARM, OR SENDS A REMOTE ALARM SIGNAL TO THE OPERATOR. IN ORDER TO ACHIEVE FILTER REGENERATION, THE OPERATOR SHALL RUN THE ENGINE UNTIL THE EXHAUST TEMPERATURE EXCEEDS 300 DEGREES CELSIUS (572 DEGREES FAHRENHEIT) OR ABOVE 40% LOAD UNTIL THE BACKPRESSURE MONITORING SYSTEM INDICATES A NORMAL BACKPRESSURE READING.
[RULE 1470]
13. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT FOR THE FOLLOWING PARAMETERS OR ITEMS:
 - A. DATA COLLECTED FROM THE DATA LOGGER THAT INCLUDES THE BACKPRESSURE IN INCHES OF WATER COLUMN, TEMPERATURE IN FAHRENHEIT AND THE DATE AND TIME OF ENGINE OPERATION
 - B. BACKPRESSURE SET POINTS USED TO PROGRAM THE BACKPRESSURE MONITOR AND ALARM SYSTEM
 - C. DATE AND TIME CATALYST CLEANING OR REPLACEMENT

RECORDS SHALL BE RETAINED FOR A PERIOD OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1470]

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14. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH SHALL ON A MONTHLY BASIS INCLUDE MANUAL AND AUTOMATIC OPERATION AND SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

- A. EMERGENCY USE HOURS OF OPERATION
- B. MAINTENANCE AND TESTING HOURS
- C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

15. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR GRID OPERATOR.
[RULE 1303(a)-BACT]
16. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE RECORDKEEPING, REPORTING AND MONITORING REQUIREMENTS OF RULE 1470.
[RULE 1470]

Periodic Monitoring:

17. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTING ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

18. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NO_x+NMHC: 4.8 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
CO: 2.6 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
PM: 0.15 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
PM: 0.01 GRAM/BHP-HR, RULE 1470
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
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PERMIT TO CONSTRUCT/OPERATE

**Permit No. G3943
A/N 494679**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL C-9, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, RATED AT 398 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NO MORE THAN 50 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1304(a)-MODELING, RULE 1110.2, RULE 1470]
4. ENGINE OPERATION FOR MAINTENANCE AND TESTING PURPOSES SHALL NOT EXCEED 4.2 HOURS IN ANY ONE MONTH.
[RULE 1303(b)(2)-OFFSET]
5. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH SHALL ON A MONTHLY BASIS INCLUDE MANUAL AND AUTOMATIC OPERATION AND SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. EMERGENCY USE HOURS OF OPERATION
 - B. MAINTENANCE AND TESTING HOURS

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C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

7. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR GRID OPERATOR.
[RULE 1303(a)-BACT]
8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE RECORDKEEPING, REPORTING AND MONITORING REQUIREMENTS OF RULE 1470.
[RULE 1470]

Periodic Monitoring:

9. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NO_x+NMHC: 3.0 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
CO: 2.6 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
PM: 0.15 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
PM: 0.15 GRAMS/BHP-HR, RULE 1470
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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PERMIT TO CONSTRUCT/OPERATE

**Permit No. G7398
A/N 505687**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL C-15, SIX CYLINDERS, DIESEL-FUELED, TURBOCHARGED, AFTERCOOLED, 636 BHP, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING OR 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304(a)-MODELING, RULE 1110.2, RULE 1470]
4. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1304(a)-MODELING AND OFFSET, RULE 1110.2, RULE 1470]
5. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH SHALL ON A MONTHLY BASIS INCLUDE MANUAL AND AUTOMATIC OPERATION AND SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. EMERGENCY USE HOURS OF OPERATION
 - B. MAINTENANCE AND TESTING HOURS
 - C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

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IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2)-OFFSET, RULE 1110.2, RULE 1470]

6. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR GRID OPERATOR.
[RULE 1303(a)-BACT]
7. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE RECORDKEEPING, REPORTING AND MONITORING REQUIREMENTS OF RULE 1470.
[RULE 1470]

Periodic Monitoring:

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIME METER TO ACCURATELY INDICATE THE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 3004 (a)(4)]

Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NO_x+NMHC: 3.0 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
CO: 2.6 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
PM: 0.15 GRAMS/BHP-HR, RULE 1303(a)(1)-BACT
PM: 0.15 GRAMS/BHP-HR, RULE 1470
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a) (4)]

Emissions And Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, LOW USE OR EMISSIONS

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1107, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1136, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 109
 - PM: RULE 481

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, SPRAY COATING ENCLOSURES, < 8 FT3 INTERNAL VOLUME.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC:	RULE 1107 SEE APPENDIX B FOR EMISSION LIMITS
VOC:	RULE 1136, SEE APPENDIX B FOR EMISSION LIMITS
VOC:	RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
PM:	RULE 481

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

REFRIGERANT: RULE 1415

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

REFRIGERANT: RULE 1415

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

HALON: RULE 1418

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765



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SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

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SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of aircontaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

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SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

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SECTION E: ADMINISTRATIVE CONDITIONS

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
- a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
- a. The results of the source test.

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SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief description of the equipment tested.
 - c. Operating conditions under which the test was performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE

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**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

NOT APPLICABLE

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SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

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SECTION J: AIR TOXICS

NOT APPLICABLE

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SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

**FACILITY PERMIT TO OPERATE
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SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

**FACILITY PERMIT TO OPERATE
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SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
- (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]
11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

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SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

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**SECTION K: TITLE V Administration
EMERGENCY PROVISIONS**

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
- (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
- (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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**SECTION K: TITLE V Administration
RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

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- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
- (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
- (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;

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- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

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FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 109	5-2-2003	Federally enforceable
RULE 1107	1-6-2006	Non federally enforceable
RULE 1107	11-9-2001	Federally enforceable
RULE 1110.2	11-14-1997	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-9-2004	Non federally enforceable
RULE 1134	8-8-1997	Federally enforceable
RULE 1136	6-14-1996	Federally enforceable
RULE 1146	11-17-2000	Federally enforceable
RULE 1146	5-13-1994	Federally enforceable
RULE 1147	12-5-2008	Non federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1304(a)-Modeling and Offset Exemption	6-14-1996	Federally enforceable
RULE 1405	1-4-1991	Non federally enforceable
RULE 1406	7-8-1994	Non federally enforceable
RULE 1415	10-14-1994	Non federally enforceable

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RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1418	9-10-1999	Non federally enforceable
RULE 1470	3-4-2005	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 218	5-14-1999	Federally enforceable
RULE 218	8-7-1981	Federally enforceable
RULE 219	7-11-2003	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 2202	2-6-2004	Non federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	6-3-2005	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 461	1-9-2004	Federally enforceable
RULE 461	6-3-2005	Federally enforceable
RULE 473	5-7-1976	Non federally enforceable
RULE 481	1-11-2002	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 60SubpartCe	10-6-2009	Federally enforceable

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RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
40CFR 63 Subpart GG	12-8-2000	Federally enforceable
40CFR 82 Subpart F	5-14-1993	Federally enforceable

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APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN
PERMIT PURSUANT TO RULE 219

NONE

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1107 11-09-2001]**

Except as otherwise provided in Rule 1107

(1) VOC Content of Coatings

A person shall not apply to metal parts and products subject to the provisions of this rule any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below:

VOC LIMITS Less Water and Less Exempt Compounds Effective Dates								
Coating	Air-Dried				Baked			
	gm/l		lb/gal		gm/l		lb/gal	
	Current	7/1/07	Current	7/1/07	Current	7/1/07	Current	7/1/07
General One-Component	275	275	2.3	2.3	275	275	2.3	2.3
General Multi-Component	340	340	2.8	2.8	275	275	2.3	2.3
Military Specification	340	340	2.8	2.8	275	275	2.3	2.3
Etching Filler	420	420	3.5	3.5	420	420	3.5	3.5
Solar-Absorbent	420	420	3.5	3.5	360	360	3.0	3.0
Heat-Resistant	420	420	3.5	3.5	360	360	3.0	3.0
Extreme High-Gloss	420	340	3.5	2.8	360	360	3.0	3.0
Metallic	420	420	3.5	3.5	420	420	3.5	3.5

**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1107 11-09-2001]**

Except as otherwise provided in Rule 1107

(1) VOC Content of Coatings

A person shall not apply to metal parts and products subject to the provisions of this rule any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below:

VOC LIMITS								
Less Water and Less Exempt Compounds								
Effective Dates								
Coating	Air-Dried				Baked			
	gm/l		lb/gal		gm/l		lb/gal	
	Current	7/1/07	Current	7/1/07	Current	7/1/07	Current	7/1/07
General One-Component	275	275	2.3	2.3	275	275	2.3	2.3
General Multi-Component	340	340	2.8	2.8	275	275	2.3	2.3
Military Specification	340	340	2.8	2.8	275	275	2.3	2.3
Etching Filler	420	420	3.5	3.5	420	420	3.5	3.5
Solar-Absorbent	420	420	3.5	3.5	360	360	3.0	3.0
Heat-Resistant	420	420	3.5	3.5	360	360	3.0	3.0
Extreme High-Gloss	420	340	3.5	2.8	360	360	3.0	3.0
Metallic	420	420	3.5	3.5	420	420	3.5	3.5

**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1107 11-09-2001]**

VOC LIMITS								
Less Water and Less Exempt Compounds								
Effective Dates, cont.								
Coating	Air-Dried				Baked			
	gm/l		lb/gal		gm/l		lb/gal	
	Current	7/1/07	Current	7/1/07	Current	7/1/07	Current	7/1/07
Extreme Performance	420	420	3.5	3.5	360	360	3.0	3.0
Prefabricated Architectural One-Component	420	275	3.5	2.3	275	275	2.3	2.3
Prefabricated Architectural Multi-Component	420	340	3.5	2.8	275	275	2.3	2.3
Touch Up	420	420	3.5	3.5	360	360	3.0	3.0
Repair	420	420	3.5	3.5	360	360	3.0	3.0
Silicone Release	420	420	3.5	3.5	420	420	3.5	3.5
High-Performance Architectural	420	420	3.5	3.5	420	420	3.5	3.5
Camouflage	420	420	3.5	3.5	420	420	3.5	3.5
Vacuum-Metalizing	420	420	3.5	3.5	420	420	3.5	3.5
Mold-Seal	420	420	3.5	3.5	420	420	3.5	3.5
High-Temperature	420	420	3.5	3.5	420	420	3.5	3.5
Electric-Insulating Varnish	420	420	3.5	3.5	420	420	3.5	3.5
Pan Backing	420	420	3.5	3.5	420	420	3.5	3.5
Pretreatment Coatings	420	420	3.5	3.5	420	420	3.5	3.5

- (2) A person shall not use VOC-containing materials which have a VOC content of more than 200 grams per liter of material for stripping any coating governed by this rule.

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-08-1996]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

TABLE OF STANDARDS

VOC LIMITS

**Grams of VOC Per Liter of Coating,
Less Water And Less Exempt Compounds**

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250				100		
Graphic Arts (Sign) Coatings	500						50

**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-08-1996]**

Industrial Maintenance						
Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 07-09-2004]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 07-09-2004]
TABLE OF STANDARDS
VOC LIMITS**

**Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds**

COATING	Limit *	Effective Date								
		1/1/98	1/1/99	7/1/01	1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350									
Clear Wood Finishes										
Varnish	350							275		
Sanding Sealers	350							275		
Lacquer	680	550					275			
Clear Brushing Lacquer	680						275			
Concrete-Curing Compounds	350									
Dry-Fog Coatings	400									
Fire-Proofing Exterior Coatings	450		350							
Fire-Retardant Coatings										
Clear	650									
Pigmented	350									
Flats	250			100						50
Floor Coatings	420				100			50		
Graphic Arts (Sign) Coatings	500									
Industrial Maintenance (IM) Coatings	420					250		100		
High Temperature IM Coatings**					420					
Zinc-Rich IM Primers	420				340			100		
Japans/Faux Finishing Coatings	700		350							
Magnesite Cement Coatings	600		450							
Mastic Coatings	300									
Metallic Pigmented Coatings	500									
Multi-Color Coatings	420	250								
Non-Flat Coatings	250				150			50		
Pigmented Lacquer	680	550					275			
Pre-Treatment Wash Primers	780				420					
Primers, Sealers, and Undercoaters	350				200			100		
Quick-Dry Enamels	400				250			50		

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 07-09-2004]**

COATING	Limit *	Effective Date								
		1/1/98	1/1/99	7/1/01	1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Quick-Dry Primers, Sealers, and Undercoaters	350				200			100		
Recycled Coatings					250					
Roof Coatings	300				250		50			
Roof Coatings, Aluminum	500						100			
Roof Primers, Bituminous	350				350					
Rust Preventative Coatings	420				400			100		
Shellac										
Clear	730									
Pigmented	550									
Specialty Primers	350							100		
Stains	350				250				100	
Stains, Interior	250									
Swimming Pool Coatings										
Repair	650				340					
Other	340									
Traffic Coatings	250	150								
Waterproofing Sealers	400				250			100		
Waterproofing Concrete/Masonry Sealers	400							100		
Wood Preservatives										
Below-Ground	350									
Other	350									

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

** The National VOC Standard at 650 g/l is applicable until 1/1/2003

**TABLE OF STANDARDS (cont.)
VOC LIMITS**

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1136 06-14-1996]**

Except as otherwise provided in Rule 1136

- (a) The operator shall not apply any coating to a wood product which has a VOC content, including any VOC-containing material added to the original coating supplied by the manufacturer, which exceeds the applicable limit specified below:

(1)

<u>COATING</u>	<u>VOC LIMITS</u>			<u>On and After 7/1/2005</u>
	Grams Per Liter (lb/gal) of Coating, [lbs VOC/lb of solids], <u>Less Water and Less Exempt Compounds</u>			
	<u>Current Limit</u>			
	<u>I</u>	<u>or</u>	<u>II</u>	
Clear Sealers	550 (4.6) [1.39]		680 (5.7) [3.36]	275 (2.3) [0.36]
Clear Topcoat	550 (4.6) [1.37]		275 (2.3) [0.35]	275 (2.3) [0.35]
Pigmented Primers, Sealers & Undercoats	550 (4.6) [1.06]		600 (5.0) [1.08]	275 (2.3) [0.21]
Pigmented Topcoats	550 (4.6) [1.10]		275 (2.3) [0.25]	275 (2.3) [0.25]

The operator shall use coatings on a wood product that comply with either all VOC limits in column I or all VOC limits in column II. The operator that applies a primer, sealer or undercoat, but not a topcoat, to a wood product, shall be subject to column I for that wood product.

- (2) Notwithstanding the requirements of clause (a)(1), an operator that applies a topcoat and a primer, sealer or undercoat to a shutter may, until July 1, 2005, choose to comply with the VOC limits specified below for that shutter:

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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1136 06-14-1996]**

VOC LIMITS

Grams Per Liter, (lb/gal) of Coating, [lbs VOC/lb of solids],
Less Water and Less Exempt Compounds

COATING

Clear Sealers	275 (2.3) [0.36]
Clear Topcoat	680 (5.7) [2.99]
Pigmented Primers, Sealers & Undercoats	275 (2.3) [0.33]
Pigmented Topcoats	600 (5.0) [1.38]

(3)

VOC LIMITS

Grams Per Liter, (lb/gal) of Coating, [lbs VOC/lb of solids],
Less Water and Less Exempt Compounds

<u>COATING</u>	<u>Current Limit</u>	<u>On and After 7/1/2005</u>
Barrier Coat - Plastic Components	760 (6.3) [3.9]	275 (2.3) [0.28]
Composite Wood Edge Filler	550 (4.6) [1.15]	275 (2.3) [0.31]
Extreme Performance Coatings	420 (3.5) [0.51]	275 (2.3) [0.33]
Fillers	500 (4.2) [0.66]	275 (2.3) [0.18]
High-Solid Stains	550 (4.6) [1.23]	350 (2.9) [0.42]
Inks	500 (4.2) [0.96]	500 (4.2) [0.96]
Mold-Seal Coatings	750 (6.3) [4.2]	750 (6.3) [4.2]
Multi-Colored Coatings	685 (5.7) [2.6]	275 (2.3) [0.33]

VOC LIMITS

Grams Per Liter (lb/gal) of Material

<u>COATING</u>	<u>Current Limit</u>	<u>On and After 7/1/2005</u>
Low-Solids Barrier Coat - Plastic Components	760 (6.3)	120 (1.0)
Low-Solid Stains, Toners, and Washcoats	480 (4.0)	120 (1.0)

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1136 06-14-1996]**

Any coating subject to this rule that meets any of the three VOC limit formats (grams per liter, lb/gal, or lbs VOC/lb of solids) is in compliance with this subparagraph.

- (4) The VOC limit for japan coatings is 700 grams per liter of coatings, less water and exempt compounds, as applied.
- (b) A person shall not use a stripper on wood products unless:
 - (1) it contains less than 350 grams of VOC per liter of material; or
 - (2) the VOC composite vapor pressure is 2 mm Hg (0.04 psia) or less at 20°C (68°F).

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-07-2003]**

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)

**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-07-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-07-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)

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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter ² Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445

**FACILITY PERMIT TO OPERATE
LOMA LINDA UNIV**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter ² Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148

**FACILITY PERMIT TO OPERATE
 LOMA LINDA UNIV**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100