



South Coast Air Quality Management District

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December 12, 2013

Mr. Joseph Grindstaff
General Manager
Inland Empire Utilities Agency
PO Box 9020
Chino Hills, CA 91761

Subject: Inland Empire Utilities Agency (IEUA), Regional Plant 5 (RP-5) (Facility ID 147371)
Title V Facility Permit, Revision No. 5

Dear Mr. Grindstaff,

Enclosed please find the revised Title page, Table of Contents, Section D, and Section H of your Title V Facility Permit. The revised sections reflect the approval of Minor Permit Revision of the Title V permit. The South Coast Air Quality Management District (SCAQMD) issued a draft permit for the Environmental Protection Agency (EPA) on November 22, 2013 for expedited review. Although no comments were received from the EPA, the 60 day period for the public to petition the Administrator to object to the permit begins the day after EPA's 45 day review period would otherwise end. Also note, that if the permit is later found to require corrective steps (including, but not limited to, reopening the permit for cause), the expiration of both EPA's review period and the public petition period without EPA objection does not compromise the EPA's authority to take such measures. No Public Notice was required for the Revision and no comments were received from the public. The revision to Section D and Section H includes the revised permit as shown below:

SECTION D, PERMIT TO OPERATE

Appl. No.	Equipment	Description
448345	Enclosed DG Flare	Convert Permit to Construct to Permit to Operate (moved from Section H to Section D). Remove Permit to Construct requirements which are no longer applicable, revise and extend source testing requirements, update equipment description, and clarify rule requirements.
449064	Boiler (<5 mmBtu/hr), NG/DG (no. 1)	Convert Permit to Construct to Permit to Operate (moved from Section H to Section D). Remove Permit to Construct requirements which are no longer applicable, revise and extend source testing requirements, update equipment description, and clarify rule requirements.
449065	Boiler (<5 mmBtu/hr), NG/DG (no. 2)	Convert Permit to Construct to Permit to Operate (moved from Section H to Section D). Remove Permit to Construct requirements which are no longer applicable, revise and extend source testing requirements, update equipment description, and clarify rule requirements.
530245	Food Waste and Dairy Manure Processing Plant	Convert Permit to Construct to Permit to Operate (moved from Section H to Section D). Remove

		Permit to Construct requirements which are no longer applicable, update equipment description, and clarify rule requirements. This application supersedes and replaces A/N 451067 and A/N 388300.
536396	IC Engine (>500 HP), NG/DG, Cogen-REEP (no. 1)	Convert Permit to Construct to Permit to Operate (moved from Section H to Section D). Remove Permit to Construct requirements which are no longer applicable, revise and extend source testing requirements, update equipment description, and clarify rule requirements. This application supersedes and replaces A/N 449691.
536397	IC Engine (>500 HP), NG/DG, Cogen-REEP (no. 2)	Convert Permit to Construct to Permit to Operate (moved from Section H to Section D). Remove Permit to Construct requirements which are no longer applicable, revise and extend source testing requirements, update equipment description, and clarify rule requirements. This application supersedes and replaces A/N 449364.

Please review the attached pages and then insert the enclosed sections in your Title V Facility Permit, and discard the earlier versions. If you have any questions concerning changes to your permit, or if you determine any administrative error, please contact Angela Shibata (909) 396-2737, within 30 days of the receipt of your permit.

Sincerely,



Andrew Y. Lee, P.E.
Senior AQ Engineering Manager
Engineering & Compliance

AYL: CDT: AIS
Attachments

cc: w/ enclosure
Gerardo Rios, EPA Region IX
Compliance
Title V Central File
Title V Application 530245 File



FACILITY PERMIT TO OPERATE

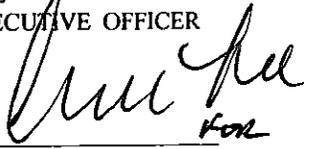
**INLAND EMPIRE UTILITIES AGENCY
6063 KIMBALL AVE
CHINO, CA 91710**

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 

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



**FACILITY PERMIT TO OPERATE
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**FACILITY PERMIT TO OPERATE
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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 No.	Permit No.	Equipment Description	Page No.
357035	G17081	SEWAGE TREATMENT (>5 MGD) AEROBIC	4
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530245	G28967	FOOD WASTE AND DAIRY MANURE PROCESSING PLANT (SHF)	26
536396	G28961	I C E (>500 HP) OTHER FUEL-REEP (SHF)	31
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NOTE: EQUIPMENT LISTED ABOVE 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 RINGLEMANN 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. THIS FACILITY SHALL NOT EMIT TOTAL SULFUR COMPOUNDS AT 5 POUNDS PER DAY OR MORE, CALCULATED AS HYDROGEN SULFIDE. IF THIS LIMIT IS EXCEEDED AT ANY ONE DAY, THE OPERATOR SHALL NOT USE SEWAGE DIGESTER GAS CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED DAILY, OR 40 PPMV AND 500 PPMV WITH AN AVERAGING PERIOD OF MONTHLY AND 15 MINUTES, RESPECTIVELY; THE OPERATOR SHALL NOT USE OTHER GASES CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE WITH AN AVERAGING PERIOD OF 4 HOURS; OR SHALL USE GASEOUS FUELS IN ACCORDANCE WITH THE ALTERNATIVE MONITORING PLAN APPROVED BY SCAQMD IN ACCORDANCE WITH RULE 431.1.
[RULE 431.1]
3. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]
4. THE OWNER OR OPERATOR SHALL COMPLY WITH ALL APPLICABLE CONTENTS OF THE ADDENDUM, MITIGATION MEASURES STIPULATED IN THE STATEMENT OF FINDINGS AND STATEMENT OF OVERRIDING CONSIDERATIONS WHICH ARE PART OF THE CERTIFIED FACILITIES MASTER PLANS PROGRAM ENVIRONMENTAL IMPACT REPORT (FMP PEIR).
[RULE 204]



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PERMIT TO OPERATE

Permit No. G17081
A/N 357035

Equipment Description:

WASTEWATER TREATMENT PLANT (REGIONAL PLANT NO. 5), 12 MGD CAPACITY (PHASE -I),
CONSISTING OF:

1. AN INFLUENT PUMP STATION WITH THREE DRY PIT SUBMERSIBLE PUMPS.
2. HEADWORKS STATION WITH TWO BAR SCREENS, A VORTEX GRIT CHAMBER, SCREENINGS, GRIT WASHING AND COMPACTING.
3. TWO PRIMARY CLARIFIERS, COVERED, EACH 100' DIA. X 12'- 0" D. WITH ASSOCIATED PUMPS AND PRIMARY CLARIFIER SPLITTER BOX.
4. TWO AERATION BASINS, EACH 343' -0" L. X 114' - 0" W. X 19'- 0" D. WITH FINE BUBBLE AERATION SYSTEM.
5. FOUR SECONDARY CLARIFIERS, EACH 130' DIA. X 17' - 0" D. WITH ASSOCIATED PUMPS.
6. TWELVE TERTIARY FILTERS, EACH WITH 300 FT² SURFACE AREA AND 15' - 0" D.
7. FLOCCULATION TANK, 275'- 0" L. X 45'- 0" W. X 15'-0" D. WITH A FLASH MIXER.
8. A LOW PRESSURE ULTRAVIOLET DISINFECTION SYSTEM.
9. CHEMICAL STORAGE, MIXING AND DISTRIBUTION AREA;
 - A. PRIMARY CHEMICAL FACILITY:
STORAGE TANK, FERRIC CHLORIDE, 9,240 GALLONS.
TWO ANIONIC POLYMER TOTES, EACH 260 GALLONS.
 - B. SECONDARY CHEMICAL FACILITY:
STORAGE TANK, SODIUM HYPOCHLORITE, 10,000 GALLONS.
STORAGE TANK, SODIUM BISULFITE, 6,200 GALLONS.
STORAGE TANK, ALUMINUM SULFATE, 6,700 GALLONS.
STORAGE TANK, CATIONIC POLYMER, 1,000 GALLONS.
STORAGE TANK, ALUM/POLYMER BLEND, 6,700 GALLONS.
10. UTILITY WATER PUMP STATION.
11. EMERGENCY STORAGE BASIN, 480'- 0" L. X 155'- 0" W. X 13' -0" D. WITH ASSOCIATED PUMPS.



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Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL 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 SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. INFLUENT PUMP STATION, HEADWORKS, GRIT CHAMBERS, SPLITTER BOXES AND PRIMARY CLARIFIERS SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AIR POLLUTION CONTROL SYSTEM (BIOFILTER) WHICH IS IN FULL OPERATION AND HAS A VALID PERMIT TO CONSTRUCT/ OPERATE ISSUED BY THE SCAQMD.
[RULE 204, RULE 402]
5. THE DAILY TOTAL INFLUENT FLOW TO THE WASTEWATER TREATMENT PLANT AND PROCESSES SHALL BE MEASURED AND RECORDED IN MILLION GALLONS PER DAY (MGD).
[RULE 204]
6. THE DAILY INFLUENT FLOW TO THE WASTEWATER TREATMENT PLANT SHALL NOT EXCEED 12 MGD EXCEPT DURING WET WEATHER PERIODS.
[RULE 1304(a)(4)-Modeling & Offsets Exemption]
7. ALL OF THE WASTE SOLIDS STREAMS (SLUDGE) GENERATED FROM THE PRIMARY AND SECONDARY CLARIFIERS SHALL BE DIVERTED TO BE PROCESSED BY THE INLAND EMPIRE UTILITIES AGENCY REGIONAL PLANT NO. 2 (RP-2).
[RULE 204]
8. RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR AT FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]



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PERMIT TO OPERATE

**Permit No. G17082
A/N 357036**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BIOFILTER, CUSTOM MADE, MULTI-COMPARTMENTS, 75'- 0" W. X 180'- 0" L. X 6'- 6" D. OVERALL DIMENSIONS, CONTAINING BIOFILTER MEDIA, WITH INCOMING FOUL AIR AND EXHAUST AIR HUMIDIFICATION.
2. EXHAUST SYSTEM WITH A 90 H.P. BLOWER SERVING THE INFLUENT PUMP STATION WET WELL, HEADWORKS, GRIT TANKS, SPLITTER BOXES AND PRIMARY CLARIFIERS (A/N 357035), 40,000 CFM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT 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 EQUIPMENT SHALL BE CONSTRUCTED, OPERATED AND MAINTAINED BY PROPERLY TRAINED PERSONNEL.
[RULE 204]
4. THE CONCENTRATION OF H₂S EMISSIONS FROM THE BIOFILTER SHALL BE MEASURED AT LEAST ONCE PER WEEK, AT A MINIMUM OF 10 POINTS, REPRESENTATIVE OF THE ENTIRE SURFACE. THE H₂S CONCENTRATION SHALL NOT EXCEED 1 PPMV AVERAGED OVER THE SURFACE OF THE BIOFILTER.
[RULE 402, RULE 1401]
5. ONCE EVERY SIX MONTHS, SMOKE TESTS SHALL BE CONDUCTED TO ENSURE EVEN DISTRIBUTION OF FOUL AIR THROUGH THE BIOFILTER.
[RULE 204]
6. THE BIOFILTER MEDIA SHOULD BE REPLACED OR REPLENISHED AS NEEDED TO MAINTAIN ADEQUATE PERFORMANCE.
[RULE 204, RULE 402]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

PERMIT TO OPERATE

Permit No. F72330
A/N 388295

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BIOFILTER, CUSTOM MADE, MULTI-COMPARTMENTS, 37'- 0" W. X 74'- 0" L. X 9'- 0" D. OVERALL DIMENSIONS EACH COMPARTMENT, CONTAINING BIOFILTER MEDIA, WITH INCOMING FOUL AIR HUMIDIFICATION AND SURFACE IRRIGATION SYSTEM.
2. EXHAUST SYSTEM WITH A 60 H.P. FAN, HARTZELL FAN, INC., MODEL 412-44-FAU3-STFC13, 29,000 CFM, SERVING THE DAIRY MANURE RECEIVING AND DELIVERY BUILDING, CONTAINING MANURE HANDLING, LOADING/UNLOADING, STORAGE, HEATING / MIXING TANKS, SLUDGE DEWATERING, AND SLUDGE-CAKE STORAGE OPERATIONS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT 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 EQUIPMENT SHALL BE CONSTRUCTED, OPERATED AND MAINTAINED BY PROPERLY TRAINED PERSONNEL.
[RULE 204]
4. THE CONCENTRATION OF H₂S AT THE BIOFILTER SURFACES (TOP AND SIDES) SHALL BE MEASURED, USING COLORIMETRIC TUBES OR A PORTABLE H₂S ANALYZER, AT LEAST ONCE PER MONTH. THE MEASURED H₂S CONCENTRATION SHALL NOT EXCEED 1 PPMV AVERAGED OVER THE SURFACE (AVERAGED OVER 25 POINTS) OF THE BIOFILTER. RECORDS FOR H₂S READINGS SHALL BE MAINTAINED.
[RULE 402, RULE 1401]
5. THE INCOMING FOUL AIR HUMIDIFICATION AND SURFACE IRRIGATION SYSTEMS SHALL BE MAINTAINED IN GOOD OPERATING CONDITION, AT ALL TIMES, AND SHALL BE UTILIZED TO MAINTAIN THE DESIRED MOISTURE CONTENT WITHIN THE BIOFILTER.
[RULE 402]
6. SMOKE BOMB TESTS SHALL BE CONDUCTED ANNUALLY TO DEMONSTRATE UNIFORM DISTRIBUTION OF AIR FLOWS, AND AREAS OF COMPACTION, AND/OR CHANNELING, THAT NEEDS REPAIR.
[RULE 204]



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7. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]



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PERMIT TO OPERATE

Permit No. F71712
A/N 433177

Equipment Description:

DIGESTER GAS IN-LINE STORAGE TANK SYSTEM CONSISTING OF:

1. STORAGE TANK, T-1, ABOVE GROUND, LOW PRESSURE DIGESTER GAS, 7,000 GALLONS CAPACITY.
2. DIGESTER GAS IN-LINE COMPRESSOR WITH AFTERCOOLER, EVAPORATIVE COOLER AND ASSOCIATED SURGE TANK AND COOLANT CIRCULATING PUMP AND PIPING.
3. STORAGE TANK, T-2, ABOVE GROUND, HIGH PRESSURE DIGESTER GAS, 7,000 GALLONS CAPACITY, WITH A PRESSURE RELIEF SAFETY VALVE SET AT 125 PSIG.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT 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. ANY EXCESS DIGESTER GAS NOT STORED OR USED BY THE PLANT SHALL BE DIVERTED TO THE EXISTING PERMITTED FLARE.
[RULE 402, RULE 1303(a)(1)-BACT, RULE 1401]
4. THE OPERATOR SHALL COMPLY WITH RULE 430 IN THE EVENT OF A RAW DIGESTER GAS RELEASE TO THE ATMOSPHERE.
[RULE 430]



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PERMIT TO OPERATE

Permit No. G28957
A/N 448345

Equipment Description:

ENCLOSED FLARE, EMERGENCY STAND-BY, DAIRY MANURE/FOOD WASTE DIGESTER GAS (BIOGAS) FIRED, JOHN ZINK, MODEL ZINK ULTRA LOW EMISSIONS (ZULE), 7'-0" DIA. X 40' - 0" OVERALL H., WITH THREE 13.1 MMBTU/HR BURNERS (TOTAL 39.3 MMBTU PER HOUR CAPACITY), JOHN ZINK, CUSTOM, NATURAL GAS (OR PROPANE GAS) PILOT, A FLAME ARRESTER, AN AUTOMATIC COMBUSTION AIR CONTROL, AN AUTOMATIC FLARE SHUT-OFF VALVE, AND AN AUTOMATIC RESTART SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THIS 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 EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF A DIGESTER GAS SAMPLE.
[RULE 204]
5. WEEKLY READINGS OF THE BTU CONTENT (BTU/SCF) OF MANURE/FOOD WASTE DIGESTER GAS AT THE INLET TO THE FLARE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 204]
6. A NON-RESETTING, OPERATIONAL TOTALIZING FLOW INDICATING AND RECORDING DEVICE SHALL BE MAINTAINED IN THE DIGESTER GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE QUANTITY OF GAS (IN SCFM) BURNED IN THE FLARE.
[RULE 204]
7. THE TOTAL HEAT INPUT OF DIGESTER GAS BURNED IN THE FLARE SHALL NOT EXCEED 32.4 MM BTU PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF DIGESTER GAS BURNED IN THE FLARE BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b)(1), 1303(b)(2)-Modeling & Offsets, RULE 1401]



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8. THE FLARE SHALL BE EQUIPPED WITH A TEMPERATURE INDICATOR AND RECORDER WHICH MEASURES AND RECORDS THE EXHAUST GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDER SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION. THE TEMPERATURE SHALL BE MEASURED AT A LOCATION ABOVE THE FLAME ZONE, AT LEAST 0.6 SECOND DOWNSTREAM OF THE BURNER, AND NOT LESS THAN THREE (3) FEET BELOW THE TOP OF THE STACK.
[RULE 1303(a)(1)-BACT]
9. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1500 DEGREES F, 15 MINUTE AVERAGE, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER SHALL BE MAINTAINED EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1500 DEGREES F IS ACHIEVED, NOT TO EXCEED 30 MINUTES. SHUTDOWN IS THE PERIOD FROM WHEN THE GAS VALVE BEGINS TO BE SHUT AND COMPLETELY SHUTS OFF, NOT TO EXCEED 30 MINUTES.
[RULE 1303(a)(1)-BACT, RULE 1401]
10. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO TIME OF THE DAY.
[RULE 204]
11. IN CASE OF AN EMERGENCY ALL DIGESTER GAS, PROCESSED BY THE HYDROGEN SULFIDE (H₂S) REMOVAL AND GAS PURIFICATION SYSTEM, SHALL BE DIRECTED TO THE FLARE FOR COMBUSTION.
[RULE 402, RULE 1401]
12. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST WITHIN 90 DAYS AFTER ACHIEVING A DIGESTER GAS FLOW RATE OF AT LEAST 220 SCFM (9.72 MMBTU/HR) BASED ON A 30-DAY AVERAGE, BUT NO LATER THAN TWO YEARS FROM THE DATE OF THIS PERMIT, AND EVERY FIVE YEARS THEREAFTER, OR AS OTHERWISE APPROVED. THE OWNER OR OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND SHALL SUBMIT TWO COPIES OF THE WRITTEN REPORT TO THE SCAQMD WITHIN 60 DAYS AFTER TESTING IS COMPLETED. THE REPORT SHALL INCLUDE, BUT MAY NOT BE LIMITED TO; THE FOLLOWING:
 - A. TEST OF THE INLET GAS TO FLARE AND THE FLARE EXHAUST FOR:
 - I. METHANE.
 - II. TOTAL NON-METHANE ORGANIC COMPOUNDS (TNMOCs).
 - III. OXIDES OF NITROGEN (EXHAUST ONLY).
 - IV. CARBON MONOXIDE (EXHAUST ONLY).
 - V. CARBON DIOXIDE.
 - VI. HYDROGEN SULFIDE (INLET ONLY).
 - VII. QUALITATIVE IDENTIFICATION OF CHEMICAL COMPOUNDS USING A GAS CHROMATOGRAPH/MASS SPECTROMETRY METHOD (GC/MS) FOR ITS VOLUME CONCENTRATION (EXHAUST ONLY).
 - VIII. OXYGEN.
 - IX. NITROGEN.
 - X. MOISTURE CONTENT.
 - XI. TEMPERATURE.
 - XII. FLOW RATE.



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THE REPORT SHALL INCLUDE EMISSIONS OF CO, NO_x, TNMOCs, PM₁₀, AND SO_x, IN UNITS OF LBS/HR, LBS/MMBTU HEAT INPUT, AND PPMV (EXCEPT PM₁₀).

- B. A TEST PROTOCOL SHALL BE SUBMITTED TO THE SCAQMD AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES OR A PREVIOUSLY SCAQMD APPROVED PROTOCOL MAY BE USED. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST AND DESCRIPTIONS OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
- C. THE TEST SHALL BE PERFORMED BY A TESTING LABORATORY CERTIFIED TO MEET THE CRITERIA IN SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
- D. THE SCAQMD ENGINEER SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST, OR WITHIN A TIME PERIOD AGREED UPON BY THE SCAQMD ENGINEER.
- E. SAMPLING FACILITIES SHALL COMPLY WITH SCAQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES" PURSUANT TO RULE 217. [RULE 304, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset, RULE 1401]

- 13. EMISSIONS RESULTING FROM THE FLARING OPERATION SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS PER DAY
CO	46.6
NO _x	19.4
PM ₁₀	14.2
ROG	5.5
SO _x	1.40

[RULE 1303(a)(1)-BACT/LAER, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset]

- 14. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW DIGESTER GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION OF THIS EQUIPMENT RESULTING IN THE EMISSION OF RAW DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD WITHIN TWENTY FOUR HOURS AFTER OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE. [RULE 402, RULE 430]
- 15. ALL RECORDS SHALL BE MAINTAINED AND KEPT FOR A PERIOD OF AT LEAST FIVE (5) YEARS TO DEMONSTRATE COMPLIANCE WITH ABOVE CONDITIONS AND SHALL BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST. [RULE 204, RULE 3004]



**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTILITIES AGENCY**

Emissions and Requirements:

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

CO: 2000 PPMV, RULE 407
CO: 0.06 LBS/MMBTU, RULE 1303-BACT/LAER
NOx: 0.025 LBS/MMBTU, RULE 1303-BACT/LAER
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: 0.1 gr/scf, RULE 409



**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTILITIES AGENCY**

PERMIT TO OPERATE

**Permit No. G28958
A/N 449064**

Equipment Description:

BOILER, NO. 1, RITE BOILER, MODEL NO. 500WGGE, WATER TUBE TYPE, WITH POWER FLAME MODEL NUMBER LNINVGR3-25B, 3750 MBH LOW NO_x BURNER, 5 H.P. COMBUSTION AIR FAN, WITH MAXIMUM 3,750,000 BTU PER HOUR HEAT INPUT, DIGESTER GAS FIRED, AND NATURAL GAS AS STAND-BY FUEL.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL 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 SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED WITH DIGESTER GAS ONLY AND NATURAL GAS SHALL ONLY BE USED AS A STAND-BY FUEL.
[RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 431.1 AND RULE 1146.1.
[RULE 431.1, RULE 1146.1]
5. A NON-RESETTABLE, OPERATIONAL, TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED.
[RULE 1303]
6. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 3.75 MMBTU/HR. A MONTHLY LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE (BTU/SCF) OF FUEL GAS COMBUSTED IN THIS EQUIPMENT BASED ON THE RECORDED FLOW (SCFM) AND THE BTU CONTENT READING OF THE FUEL.
[RULE 204]
7. THIS EQUIPMENT SHALL BE EQUIPPED TO AUTOMATICALLY REGULATE THE COMBUSTION AIR AND FUEL RATE AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED, TUNED, AND MAINTAINED PERIODICALLY, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.
[RULE 1146.1]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS, UNLESS OTHERWISE APPROVED:
- A. TESTING SHALL BE CONDUCTED BY AN APPROVED CONTRACTOR UNDER THE SCAQMD LABORATORY APPROVAL PROGRAM AND IN COMPLIANCE WITH SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
 - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO SCAQMD AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES OR A PREVIOUSLY SCAQMD APPROVED PROTOCOL MAY BE USED. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST AND DESCRIPTIONS OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
 - C. THE INITIAL SOURCE TEST FOR EACH FUEL SHALL BE CONDUCTED WITHIN 60 CALENDAR DAYS AFTER NORMAL OPERATION HAS BEEN ESTABLISHED AND NO LATER THAN TWO YEARS FROM ISSUANCE OF THIS PERMIT.
 - D. THE INITIAL SOURCE TEST FOR EACH FUEL SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND AVERAGE LOAD FOR EACH FUEL USED. THE SAMPLING TIME AT EACH LOAD SHALL BE FOR A MINIMUM OF 15 CONSECUTIVE MINUTES.
 - E. SUBSEQUENT SOURCE TESTS SHALL BE CONDUCTED EVERY FIVE YEARS PER RULE 1146.1 IN AS-FOUND OPERATING CONDITION. THE SAMPLING TIME AT EACH LOAD SHALL BE FOR A MINIMUM OF 15 CONSECUTIVE MINUTES.
 - F. TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO THE SCAQMD, ATTN COMPLIANCE MANAGER, WASTE MANAGEMENT UNIT, WITHIN 60 DAYS OF TESTING. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - I. FUEL FLOW RATE.
 - II. FLUE GAS FLOW RATE.
 - III. METHANE FOR INLET AND EXHAUST (INITIAL SOURCE TEST FOR DIGESTER GAS ONLY).
 - IV. TOTAL NON-METHANE ORGANICS (INITIAL SOURCE TEST FOR DIGESTER GAS ONLY).
 - V. TRACE ORGANICS FOR INLET AND EXHAUST (INITIAL SOURCE TEST FOR DIGESTER GAS ONLY).
 - VI. TOTAL PARTICULATES FOR EXHAUST (INITIAL SOURCE TEST FOR DIGESTER GAS ONLY).
 - VII. OXIDES OF NITROGEN FOR EXHAUST.
 - VIII. CARBON MONOXIDE FOR EXHAUST.
 - IX. OXYGEN FOR EXHAUST.
 - X. MOISTURE.
 - XI. DIGESTER GAS BTU (HHV).
 - XII. DIGESTER GAS TOTAL SULFUR CONTENT AS H₂S (PPMV) (INITIAL SOURCE TEST FOR DIGESTER GAS ONLY).



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF LBS/HR, LBS/MMBTU HEAT INPUT, AND PPMV AND PPMV AT 3% O2 (EXCEPT PM10). SOURCE TESTS SHALL BE CONDUCTED USING APPROVED DISTRICT METHODS.

[RULE 404, RULE 1146.1, RULE 1303]

9. THE OWNER OR OPERATOR SHALL CHECK NOX EMISSIONS WITH A PORTABLE NOX AND O2 ANALYZER ACCORDING TO THE SCAQMD APPROVED PROTOCOL FOR RULE 1146.1 BY A DISTRICT APPROVED TRAINED AND CERTIFIED PERSON AT LEAST QUARTERLY OR EVERY 2,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER. IF A UNIT IS IN COMPLIANCE FOR FOUR CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT SHALL BE CHECKED SEMI-ANNUALLY OR EVERY 4,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.

[RULE 1146.1]

10. EMISSIONS RESULTING FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	POUNDS PER DAY
CO	6.72
NOx	3.36 (0.96 WITH NATURAL GAS)
PM10	0.48
ROG	0.72
SOx	1.10

[RULE 404, RULE 1146.1, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset]

11. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.

[RULE 3004]

Emissions and Requirements:

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

CO: 2000 PPMV, RULE 407
CO: 400 PPMV @ 3% O2, DRY BASIS, RULE 1146.1
CO: 100 PPMV @ 3% O2, DRY BASIS, RULE 1303(a)(1)-BACT
NOx: 30 PPMV @ 3% O2, DRY BASIS, DIGESTER GAS, RULE 1146.1, RULE 1303(a)(1)-BACT
NOx: 15 PPMV @ 3% O2, DRY BASIS, DIGESTER GAS (EFFECTIVE 1/1/2015), RULE 1146.1
NOx: 9 PPMV @ 3% O2, DRY BASIS, OR 0.011 LBS/MMBTU, NATURAL GAS, RULE 1146.1
NOx: 12 PPMV @ 3% O2, DRY BASIS, NATURAL GAS, RULE 1303(a)(1)-BACT
PM: 0.1 gr/dscf, RULE 409



**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTILITIES AGENCY**

PERMIT TO OPERATE

**Permit No. G28959
A/N 449065**

Equipment Description:

BOILER, NO. 2, RITE BOILER, MODEL NO. 500WGGE, WATER TUBE TYPE, WITH POWER FLAME MODEL NUMBER LNINVGR3-25B, 3750 MBH LOW NO_x BURNER, 5 H.P. COMBUSTION AIR FAN, WITH MAXIMUM 3,750,000 BTU PER HOUR HEAT INPUT, DIGESTER GAS FIRED, AND NATURAL GAS AS STAND-BY FUEL.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL 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 SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED WITH DIGESTER GAS ONLY AND NATURAL GAS SHALL ONLY BE USED AS A STAND-BY FUEL.
[RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 431.1 AND RULE 1146.1.
[RULE 431.1, RULE 1146.1]
5. A NON-RESETTABLE, OPERATIONAL, TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED.
[RULE 1303]
6. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 3.75 MMBTU/HR. A MONTHLY LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE (BTU/SCF) OF FUEL GAS COMBUSTED IN THIS EQUIPMENT BASED ON THE RECORDED FLOW (SCFM) AND THE BTU CONTENT READING OF THE FUEL.
[RULE 204]
7. THIS EQUIPMENT SHALL BE EQUIPPED TO AUTOMATICALLY REGULATE THE COMBUSTION AIR AND FUEL RATE AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED, TUNED, AND MAINTAINED PERIODICALLY, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.
[RULE 1146.1]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS EVERY FIVE YEARS UNDER THE FOLLOWING CONDITIONS AND PER RULE 1146.1:
- A. TESTING SHALL BE CONDUCTED BY AN APPROVED CONTRACTOR UNDER THE SCAQMD LABORATORY APPROVAL PROGRAM AND IN COMPLIANCE WITH SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
 - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO SCAQMD AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES OR A PREVIOUSLY SCAQMD APPROVED PROTOCOL MAY BE USED. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST AND DESCRIPTIONS OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
 - C. SOURCE TESTS SHALL BE PERFORMED IN AS-FOUND OPERATING CONDITION. THE SAMPLING TIME AT EACH LOAD SHALL BE FOR A MINIMUM OF 15 CONSECUTIVE MINUTES.
 - D. TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO SCAQMD WITHIN 60 DAYS OF TESTING. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - I. FUEL FLOW RATE (EACH FUEL).
 - II. FLUE GAS FLOW RATE (EACH FUEL).
 - III. OXIDES OF NITROGEN FOR EXHAUST GAS.
 - IV. CARBON MONOXIDE FOR EXHAUST GAS.
 - V. CARBON DIOXIDE FOR EXHAUST GAS.
 - VI. OXYGEN FOR EXHAUST GAS.
 - VII. MOISTURE.
 - VIII. DIGESTER GAS BTU (HHV) (IF BOILER IS OPERATING ON DIGESTER GAS).

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN PART PER MILLION (PPMV), ON A DRY BASIS AT 3% O₂ AND POUNDS PER HOUR. THE SOURCE TESTS SHALL BE PERFORMED USING APPROVED DISTRICT METHODS.

[RULE 1146.1, RULE 1303]

9. THE OWNER OR OPERATOR SHALL CHECK NOX EMISSIONS WITH A PORTABLE NOX AND O₂ ANALYZER ACCORDING TO THE SCAQMD APPROVED PROTOCOL FOR RULE 1146.1 BY A DISTRICT APPROVED TRAINED AND CERTIFIED PERSON AT LEAST QUARTERLY OR EVERY 2,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER. IF A UNIT IS IN COMPLIANCE FOR FOUR CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT SHALL BE CHECKED SEMI-ANNUALLY OR EVERY 4,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.
- [RULE 1146.1]



**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTILITIES AGENCY**

10. EMISSIONS RESULTING FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	POUNDS PER DAY
CO	6.72
NOx	3.36 (0.96 WITH NATURAL GAS)
PM10	0.48
ROG	0.72
SOx	1.10

[RULE 404, RULE 1146.1, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset]

11. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004]

Emissions and Requirements:

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

CO: 2000 PPMV, RULE 407
CO: 400 PPMV @ 3% O2, DRY BASIS, RULE 1146.1
CO: 100 PPMV @ 3% O2, DRY BASIS, RULE 1303(a)(1)-BACT
NOx: 30 PPMV @ 3% O2, DRY BASIS, DIGESTER GAS, RULE 1146.1, RULE 1303(a)(1)-BACT
NOx: 15 PPMV @ 3% O2, DRY BASIS, DIGESTER GAS (EFFECTIVE 1/1/2015), RULE 1146.1
NOx: 9 PPMV @ 3% O2, DRY BASIS, OR 0.011 LBS/MMBTU, NATURAL GAS, RULE 1146.1
NOx: 12 PPMV @ 3% O2, DRY BASIS, NATURAL GAS, RULE 1303(a)(1)-BACT
PM: 0.1 gr/dscf, RULE 409



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

PERMIT TO CONSTRUCT/OPERATE

Permit No. F96118
A/N 475166

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. C-6.6, SERIAL NUMBER EM00788, DIESEL FUELED, 217 BHP, 6 CYLINDERS, FOUR CYCLES, TURBOCHARGED, AFTERCOOLED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR (LOCATED AT REGIONAL PLANT NO. 5, SOLIDS HANDLING FACILITY, NEAR ENCLOSED FLARE).

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 CONDITIONS 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 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption, 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 1303- BACT]
5. 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-BACT]
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2; RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

7. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS 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 AND SHALL BE 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 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption, RULE 1470]

8. THE SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THIS ENGINE SHALL NOT EXCEED 15 PPM (0.0015%) BY WEIGHT.
[RULE 1470]
9. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: 0.15 gm/bhp-hr, RULE 1470
PM: 0.15 gm/bhp-hr, RULE 1303-BACT
NO_x +NMHC: 3.0 g/bhp-hr, RULE 1303-BACT, RULE 1470
CO: 2.6 g/bhp-hr, RULE 1303-BACT, RULE 1470



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

PERMIT TO CONSTRUCT/OPERATE

Permit No. G2898
A/N 489261

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL NO. QST30-G5 NR2, SERIAL NUMBER 37235929, DIESEL FUELED, 1490 BHP, 12 CYLINDERS, FOUR CYCLES, TURBOCHARGED, AFTERCOOLED, 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 CONDITIONS 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 6 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption, RULE 1470]
4. OPERATION BEYOND THE 6 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 1303-BACT, RULE 1470]
5. 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-BACT, RULE 1470]
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

7. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS 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 AND SHALL BE 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 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption, RULE 1470]

8. THE SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THIS ENGINE SHALL NOT EXCEED 15 PPM (0.0015%) BY WEIGHT.
[RULE 1470]
9. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

Emissions and Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- | | |
|------------|--|
| PM: | RULE 404, SEE APPENDIX B FOR EMISSION LIMITS |
| PM: | 0.15 gm/bhp-hr, RULE 1470 |
| PM: | 0.15 gm/bhp-hr, RULE 1303 – BACT |
| NOx +NMHC: | 4.8 g/bhp-hr, RULE 1303-BACT, RULE 1470 |
| CO: | 2.6 g/bhp-hr, RULE 1303-BACT, RULE 1470 |



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

PERMIT TO CONSTRUCT/OPERATE

Permit No. G2899
A/N 489264

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL NO. QST30-G5 NR2, SERIAL NUMBER 37236081, DIESEL FUELED, 1490 BHP, 12 CYLINDERS, FOUR CYCLES, TURBOCHARGED, AFTERCOOLED, DRIVING AN EMERGENCY ELECTRICAL.

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 CONDITIONS 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 6 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption, RULE 1470]
4. OPERATION BEYOND THE 6 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 1303-BACT, RULE 1470]
5. 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-BACT, RULE 1470]
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

7. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS 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 AND SHALL BE 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 1110.2, RULE 1303-BACT, RULE 1304(a)(4)- Modeling & Offsets Exemption, RULE 1470]

8. THE SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THIS ENGINE SHALL NOT EXCEED 15 PPM (0.0015%) BY WEIGHT.
[RULE 1470]
9. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: 0.15 gm/bhp-hr, RULE 1470
PM: 0.15 gm/bhp-hr, RULE 1303 – BACT
NO_x +NMHC: 4.8 g/bhp-hr, RULE 1303-BACT, RULE 1470
CO: 2.6 g/bhp-hr, RULE 1303-BACT, RULE 1470



**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTILITIES AGENCY**

PERMIT TO OPERATE

**Permit No. G28967
A/N 530245**

Equipment Description:

FOOD WASTE AND DAIRY MANURE PROCESSING OPERATIONS CONSISTING OF:

1. WEIGH STATION TRUCK SCALES.
2. LIQUID FOOD WASTE HANDLING SYSTEM, INCLUDING:
 - A. FOUR (4) FOOD WASTE STORAGE TANKS, 15,000 GALLON CAPACITY EACH, VENTED TO AN AIR POLLUTION CONTROL SYSTEM (BIOFILTER) VIA THE RECEIVING AND DEWATERING BUILDING.
 - B. ASSOCIATED SUMP, FEED PUMPS AND VACUUM TRUCK CONNECTIONS.
3. FOOD WASTE AND MANURE RECEIVING AND DEWATERING BUILDING, WITH FOUR (4) ROLL UP DOORS, VENTED TO AN AIR POLLUTION CONTROL SYSTEM (BIOFILTER), INCLUDING:
 - A. FOOD WASTE AND MANURE RECEIVING AND STORAGE AREA.
 - B. FOOD WASTE AND MANURE CLIMBING SCREEN.
 - C. TWO (2) CONCRETE RECEIVING PITS/STORAGE/MIX TANKS, BELOW GROUND LEVEL, 95,000 GALLONS EACH, WITH RECIRCULATING SYSTEM AND ASSOCIATED PUMPS.
 - D. SLUDGE CAKE STORAGE.
4. PRIMARY FOOD WASTE AND MANURE DIGESTER SYSTEM CONSISTING OF:
 - A. TWO (2) DIGESTERS, ANAEROBIC, CONICAL ROOF, EACH 62' DIA. X APPROXIMATELY 55' H., WITH ASSOCIATED AGITATORS, FEED PUMPS, EFFLUENT LINES, AND FOAM SUPPRESSION SYSTEM.
 - B. OPTIONAL ACTIVATED CARBON VESSEL(S) VENTING THE DIGESTERS' PRESSURE RELIEF VALVES.
 - C. TWO (2) SHELL AND TUBE HEAT EXCHANGERS.
5. FOOD WASTE AND WET MANURE PLUG-FLOW MIX DIGESTER TANK, CONCRETE, 195' L. X 60' W. X 14' D., BELOW GROUND LEVEL, WITH A GAS-TIGHT CONCRETE COVER, WITH ASSOCIATED MIXERS, CIRCULATION AND EFFLUENT PUMPS, FOAM SUPPRESSION SYSTEM, AND FIVE (5) SHELL AND TUBE HEAT EXCHANGERS.



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6. DIGESTER GAS HANDLING SYSTEM WITH ASSOCIATED PUMPS, PIPING, AND WATER TRAPS, CONSISTING OF:
 - A. DIGESTER GAS HOLDER (GAS BAG), 424 CUBIC FEET.
 - B. PRIMARY IRON SPONGE DESULFURIZATION SYSTEM WITH TWO IRON SPONGE VESSELS WITH DEMISTER (NEAR CONICAL ROOF DIGESTERS).
 - C. TWO (2) SECONDARY OPTIONAL IRON SPONGE VESSELS WITH DEMISTER (NEAR PLUG FLOW DIGESTER).
 - D. CONDENSATE KNOCK OUT TANK(S).
 - E. TWO (2) LOW PRESSURE DIGESTER GAS TANKS, 1,000 CUBIC FEET EACH.
 - F. GAS BLOWERS, WITH DEMISTER, SUPPLYING DIGESTER GAS FOR BOILERS, STAND-BY FLARE, OR OTHER PERMITTED COMBUSTION EQUIPMENT.
 - G. CONDENSATE KNOCK OUT TANK(S).
 - H. THREE (3) HIGH PRESSURE GAS COMPRESSORS, FOR IC ENGINES.
 - I. TWO (2) DIGESTER GAS TANKS, 4,120 CUBIC FEET EACH, FOR THE IC ENGINES.
7. STORAGE TANK, DIGESTED SOLID EFFLUENT, BELOW GROUND LEVEL, 53,957 GALLONS.
8. DIGESTER SOLIDS DEWATERING SYSTEM (CONTAINED INSIDE THE FOOD WASTE AND MANURE RECEIVING AND DEWATERING BUILDING) CONSISTING OF:
 - A. TWO (2) FOOD WASTE/MANURE PUMPS.
 - B. POLYMER FEED AND CONTROL SYSTEM, TO MAINTAIN WATER FLOW RATE AND SELECTED DILUTE POLYMER CONCENTRATION IN FEED SOLUTION.
 - C. TWO (2) ROTARY PRESSES.
 - D. TWO (2) FLOCCULATORS, WITH SUMP PUMP.
 - E. TWO POLYMER TANKS.
 - F. ONE SCREW CONVEYOR FOR DISCHARGE AND A LOADING CONVEYOR.
9. STORAGE TANK, FILTRATE, 140,000 GALLON CAPACITY, TO BE DISCHARGED TO INLAND EMPIRE BRINE LINE (IEBL) PREVIOUSLY KNOWN AS SANTA ANA RIVER INTERCEPTOR (SARI).
10. SLUDGE CAKE (BIOSOLIDS) FROM DEWATERING EQUIPMENT FOR REMOVAL TO COMPOSTING OR OTHER FACILITY.



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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 EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1127.
[RULE 1127]
5. THIS FACILITY SHALL NOT ACCEPT OR PROCESS GREATER THAN A COMBINED TOTAL OF 705 WET SHORT TONS PER DAY OF FOOD WASTE AND MANURE.
[RULE 204]
6. THIS FACILITY SHALL NOT ACCEPT OR PROCESS GREATER THAN 615 WET SHORT TONS PER DAY OF FOOD WASTE AND 90 WET SHORT TONS PER DAY OF MANURE. THE WASTE WEIGHT AND TYPE SHALL BE RECORDED ON A DAILY BASIS.
[RULE 204]
7. THE OWNER AND OPERATOR SHALL NOT OPERATE THE PLUG FLOW MIX DIGESTER TANK.
[RULE 204, RULE 402]
8. THE OWNER AND OPERATOR SHALL INSTALL AND MAINTAIN CARBON ADSORPTION VESSEL(S) CONTAINING AT LEAST 2,000 POUNDS OF ACTIVATED CARBON WHICH SHALL BE IN FULL USE TO TREAT AND VENT DIGESTER GAS RELEASED FROM THE DIGESTERS' PRESSURE RELIEF VALVES.
[RULE 204, RULE 402]
9. THE FOOD WASTE AND MANURE TO BE PROCESSED AT THE FOOD WASTE AND MANURE PROCESSING FACILITY SHALL BE TRANSPORTED IN ENCLOSED TANKER TRAILERS TO PREVENT ANY FUGITIVE ODOR EMISSIONS DURING TRANSPORT, LOADING OR DELIVERY. EXTERIOR OF SUCH DELIVERY TANKER TRAILERS SHALL BE CLEAN, INCLUDING TIRES, PRIOR TO THE TRANSPORT.
[RULE 204, RULE 402]
10. ALL DOORS AND OPENINGS TO THE FOOD WASTE AND MANURE RECEIVING AND SLUDGE DEWATERING BUILDING SHALL REMAIN CLOSED EXCEPT DURING SPECIFIC ACTIVITIES WHICH REQUIRE DOORS TO BE OPEN, INCLUDING LOADING AND UNLOADING, ENTRY AND EGRESS.
[RULE 204, RULE 402]



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11. THE FOOD WASTE AND DAIRY MANURE RECEIVING AND DEWATERING BUILDING, DIGESTED EFFLUENT WASTEWATER TREATMENT SYSTEM, AND FOUR 15,000 GALLON FOOD WASTE TANKS WHEN IN OPERATION SHALL BE VENTED ONLY TO AN AIR POLLUTION CONTROL SYSTEM (BIOFILTER) WHICH IS IN GOOD OPERATING CONDITION, IN FULL OPERATION, AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.
[RULE 1303(a)(1) – BACT]
12. SCREENING EQUIPMENT SHALL BE VENTED DIRECTLY TO THE AIR POLLUTION CONTROL SYSTEM WHICH IS IN GOOD OPERATING CONDITION, IN FULL OPERATION, AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.
[RULE 204, RULE 402]
13. ANY SOLID WASTE MATERIAL GENERATED DURING FOOD WASTE AND MANURE SCREENING PROCESS SHALL BE STORED IN DUMPSTERS WITH TIGHT LIDS OR SHALL HAVE ODOR CONTROLS INSTALLED TO PREVENT RELEASE OF ODORS TO ATMOSPHERE.
[RULE 402]
14. FOOD WASTE AND MANURE RECEIVING TANKS SHALL BE COVERED AT ALL TIMES EXCEPT DURING SPECIFIC ACTIVITIES WHICH REQUIRE COVERS TO BE OPEN DURING PERIODIC INSPECTIONS AND CLEANING, AND VENTED TO THE AIR POLLUTION CONTROL SYSTEM WHICH IS IN GOOD OPERATING CONDITION, IN FULL OPERATION, AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.
[RULE 204, RULE 402]
15. THE TOTAL WEIGHT OF THE INFLUENT FOOD WASTE AND DAIRY MANURE LOADS SHALL BE WEIGHED UPON ENTRY TO THE FACILITY AND RECORDED ON A DAILY BASIS.
[RULE 204]
16. THE TOTAL GALLONS OF FOOD WASTE PUMPED FROM THE FOUR FOOD WASTE TANKS INTO THE DIGESTERS SHALL BE MEASURED BY FLOW METER(S) AND RECORDED ON A DAILY BASIS.
[RULE 204]
17. THE TOTAL SOLIDS WEIGHT OF FOOD WASTE AND MANURE DELIVERED TO THE FACILITY SHALL BE WEIGHED, ANALYZED, AND RECORDED ON A DAILY BASIS.
[RULE 204]
18. DIGESTER GAS (BIOGAS) PRODUCED, SHALL BE SAMPLED, ANALYZED, AND RESULTS RECORDED ON A MONTHLY BASIS, AND DURING ANY ACCIDENTAL DIGESTER GAS RELEASE EVENT, WITHIN 24 HOURS, FOR BTU CONTENT, TOTAL REDUCED SULFUR AS H₂S (PPMV), AND VOLATILE ORGANICS SPECIATED.
[RULE 204, RULE 431.1]
19. THE SLUDGE CAKE PRODUCED BY DEWATERING PROCESS SHALL BE REMOVED ON A DAILY BASIS AND EITHER STORED ONSITE IN TIGHTLY CLOSED CONTAINERS OR LOADED AND TRANSPORTED IN AN ENCLOSED TRUCK. LOADED TRUCK TRAILERS SHALL RESIDE INSIDE THE MANURE RECEIVING AND SLUDGE DEWATERING BUILDING AT ALL TIMES, PRIOR TO LEAVING THE FACILITY. NO MORE THAN TWO (2) COVERED TRAILERS, CONTAINING THE SLUDGE CAKE OR EMPTY, STORED ONSITE AT ANY ONE TIME. PRIOR TO LEAVING THE FACILITY, THE EXTERIOR OF THE TRUCK, INCLUDING TIRES, SHALL BE CLEANED.
[RULE 402]



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20. ALL OF THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE COMBUSTED IN THE FACILITY FLARE(S), ENGINE(S), BOILER(S), OR OTHER COMBUSTION EQUIPMENT WHICH HAVE EITHER VALID PERMITS TO CONSTRUCT OR OPERATE OR EQUIPMENT WHICH HAVE BEEN DETERMINED TO BE RULE 219 EXEMPT.
[RULE 204, RULE 402, RULE 1303(a)(1)-BACT, RULE 1401]
21. PRIOR TO COMBUSTING DIGESTER GAS PRODUCED IN THIS EQUIPMENT, THE DIGESTER GAS SHALL FIRST BE TREATED THROUGH A DESULFURIZATION SYSTEM WITH A DEMISTER.
[RULE 204]
22. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW BIOGAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION OF THIS EQUIPMENT RESULTING IN THE EMISSION OF RAW BIOGAS SHALL BE REPORTED TO THE DISTRICT IN ACCORDANCE WITH RULE 430, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, RULE 430, RULE 1401]
23. THE OPERATOR SHALL PERFORM AMBIENT AIR MONITORING USING A MONITORING SYSTEM IN ACCORDANCE WITH THE FOLLOWING:
 - A. THE OPERATOR SHALL COMPLY WITH AN AMBIENT AIR HYDROGEN SULFIDE MONITORING PROTOCOL APPROVED IN WRITING BY SCAQMD. IF WRITTEN APPROVAL HAS NOT BEEN GRANTED, THE OPERATOR SHALL COMPLY WITH THE SUBMITTED AMBIENT AIR H₂S MONITORING PROTOCOL, UNTIL WRITTEN APPROVAL IS GRANTED.
 - B. THE MONITORING SYSTEM SHALL CONSIST OF AT LEAST TWO (2) SEPARATE MONITORING STATIONS AT SPECIFIC LOCATIONS AS IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE MONITORING PROTOCOL.
 - C. EACH MONITORING STATION SHALL CONTINUOUSLY MEASURE AND RECORD THE HYDROGEN SULFIDE CONCENTRATION AND MONITORS SHALL BE EQUIPPED WITH AUDIBLE AND VISIBLE ALARM SYSTEM.
 - D. THE MONITORING SYSTEM SHALL BE IN FULL OPERATION WHENEVER THE EQUIPMENT DESCRIBED IN THIS PERMIT IS OPERATED.
 - E. THE DATA PRODUCED BY THE MONITORING SYSTEM SHALL BE RETAINED FOR AT LEAST FIVE YEARS, AND BE MADE AVAILABLE UPON REQUEST BY SCAQMD PERSONNEL.
 - F. THE OPERATOR SHALL INVESTIGATE AND REPORT TO SCAQMD, FOLLOWING THE PROCEDURES OF RULE 430 BREAKDOWN, ANY AMBIENT AIR MONITORING RESULT THAT EXCEEDS 0.03 PPMV HYDROGEN SULFIDE IN AIR AT ANY MONITOR.
[RULE 204, RULE 402, RULE 1401]
24. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]



**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTILITIES AGENCY**

PERMIT TO OPERATE

**Permit No. G28961
A/N 536396**

Equipment Description:

COGENERATION SYSTEM CONSISTING OF:

1. BLENDED FUEL GAS STORAGE TANK (DIGESTER GAS, DIGESTER GAS/NATURAL GAS).
2. INTERNAL COMBUSTION ENGINE, NO. 1, CATERPILLAR, MODEL NO. G3608, FOUR CYCLE, 8 CYLINDERS, LEAN BURN, TURBOCHARGED, AFTERCOOLED, FIRED WITH DIGESTER GAS OR DIGESTER GAS/NATURAL GAS BLEND, 2131 BHP, WITH HEAT RECOVERY SILENCER UNIT AND DRIVING A 1.5 MW ELECTRICAL GENERATOR.
3. HEAT EXCHANGERS, PUMPS, AIR COMPRESSORS, ORGANIC RANKINE CYCLE (ORC) SYSTEM, THERMAL ENERGY STORAGE AND ABSORPTION CHILLER SYSTEM, AND ORC BY-PASS.
4. EXHAUST STACK, 2'- 6" DIA. X 43' H. MINIMUM (COMMON TO ENGINE NO. 1 AND 2).

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL 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 SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. ANY HEAT, ELECTRICITY, OR POWER PRODUCED FROM THE ENGINE SHALL ONLY BE USED WITHIN AN INLAND EMPIRE UTILITIES AGENCY (IEUA) OWNED AND OPERATED ESSENTIAL PUBLIC SERVICE FACILITY.
[RULE 1303(b)(1)-Offsets, RULE 1309.1-Priority Reserve]
5. THIS ENGINE SHALL BE FIRED ONLY ON DIGESTER GAS AND DIGESTER GAS/NATURAL GAS BLEND FUEL, EXCEPT DURING INITIAL COMMISSIONING UTILIZING NATURAL GAS NOT TO EXCEED 150 OPERATING HOURS. THE OWNER OR OPERATOR SHALL NOTIFY SCAQMD 48 HOURS PRIOR TO THE START OF ENGINE COMMISSIONING.
[RULE 1110.2]



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6. THE MONTHLY AVERAGE DIGESTER GAS USAGE BY THE DIGESTER GAS ENGINES SHALL BE 90% OR MORE, BASED ON THE HIGHER HEATING VALUE OF THE FUELS USED. THE CALCULATION OF THE MONTHLY FACILITY DIGESTER GAS USE PERCENTAGE MAY EXCLUDE NATURAL GAS FIRED DURING ANY ELECTRICAL OUTAGE AT THE FACILITY AND A STAGE 2 OR HIGHER ELECTRICAL EMERGENCIES CALLED BY THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION.
[RULE 1110.2]
7. A NON-RESETTABLE, OPERATIONAL, TOTALIZING FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE AND RECORD THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL OR FUEL BLEND USED.
[RULE 204, RULE 1110.2]
8. SAMPLING PORT SHALL BE INSTALLED FOR THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A FUEL GAS OR FUEL BLEND SAMPLES.
[RULE 204]
9. THE TOTAL HEAT INPUT OF GASEOUS FUEL, OR FUEL BLEND, BURNED IN THIS ENGINE SHALL NOT EXCEED 15.1 MM BTU PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF FUEL GAS, OR FUEL BLEND, BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b)(1), RULE 1303(b)(2)-Modeling & Offset]
10. WEEKLY READINGS OF THE BTU CONTENT OF FUEL GAS (BTU/SCF) AT THE INLET TO THE ENGINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 204]
11. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF THE DAY.
[RULE 204]
12. THE ENGINE SHALL HAVE AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME FOR EACH FUEL OR FUEL BLEND BURNED.
[RULE 1110.2]
13. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION OF THE ENGINE SINCE THE LAST SOURCE TEST.[RULE 204, RULE 1110.2]



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14. THE OWNER OR OPERATOR SHALL PROVIDE 100% BACKUP CONTROL FOR THE FUEL GAS OR FUEL BLEND NOT UTILIZED BY THE ENGINE(S) AND FUEL GAS SHALL BE DIRECTED TO THE FLARE FOR COMBUSTION OR ANY OTHER COMBUSTION OR PROCESSING FACILITY, WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 402, RULE 1303(a)(1)-BACT, RULE 1401]
15. OPERATION OF THIS ENGINE SHALL NOT RESULT IN THE RELEASE OF RAW FUEL GAS, OR FUEL BLEND, INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF FUEL GAS SHALL BE REPORTED PURSUANT TO RULE 430 REQUIREMENTS AND DIRECTLY TO THE SCAQMD MANAGER OF THE REFINERY AND WASTE MANAGEMENT TEAM WITHIN ONE HOUR AFTER OCCURRENCE, OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, RULE 430]
16. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
17. ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, WITH ITS SAFE ACCESS SHALL BE INSTALLED AND MAINTAINED IN THE EXHAUST STACK IN ACCORDANCE WITH RULE 217 AND SCAQMD'S APPROVAL.
[RULE 217]
18. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEASURE THE ENGINE EXHAUST CONCENTRATION FOR NO_x AND O₂, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO_x CONCENTRATION TO A CORRECTED NO_x CONCENTRATION AT 15% O₂ AND CONTINUOUSLY RECORD THE STACK NO_x CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER. AN ALTERNATIVE OR PREDICTIVE EMISSIONS MONITORING SYSTEM (PEMS) MAY BE SUBMITTED CONCURRENTLY WITH THE AFOREMENTIONED CEMS.
[RULE 218, RULE 1110.2]
19. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 9/7/2012, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2]
20. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST WITHIN 90 DAYS AFTER ACHIEVING A DIGESTER GAS FLOW RATE OF AT LEAST 274 SCFM (12.08 MMBTU/HR) BASED ON A 30-DAY AVERAGE, BUT NO LATER THAN TWO YEARS FROM THE ISSUANCE OF THIS PERMIT, AND AT LEAST ONCE EVERY TWO (2) YEARS THEREAFTER, OR EVERY 8,760 OPERATING HOURS WHICHEVER OCCURS FIRST, UNLESS OTHERWISE APPROVED BY THE EXECUTIVE OFFICER. THE APPLICANT SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN 60 DAYS AFTER TESTING.



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RELATIVE ACCURACY TESTS REQUIRED BY RULE 218.1 OR 40 CFR 75 SUBPART E WILL SATISFY THE NON-INITIAL SOURCE TESTING REQUIREMENT FOR THOSE POLLUTANTS MONITORED BY A CEMS. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. WRITTEN NOTICE OF THE PERFORMANCE TESTS SHALL BE PROVIDED TO THE SCAQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS, BY AN INDEPENDENT TESTING LABORATORY UNDER RULE 304 (NO CONFLICT OF INTEREST), SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 45 DAYS PRIOR TO START OF THE TESTS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET FUEL GAS (INCLUDING BTU/SCF, SILOXANES), AND THE ENGINE EXHAUST FOR:

- A. HYDROCARBONS (METHANE AND NON-METHANE, INITIAL TEST ONLY).
- B. CARBON MONOXIDE (EXHAUST ONLY).
- C. OXIDES OF NITROGEN (EXHAUST ONLY).
- D. CARBON DIOXIDE.
- E. TOTAL PARTICULATES (EXHAUST ONLY, INITIAL TEST ONLY).
- F. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY).
- G. ALDEHYDES (EXHAUST ONLY, INITIAL TEST ONLY).
- H. TOXIC AIR CONTAMINANTS INCLUDING, BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1,1-DICHLOROETHENE, DICHOLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS (INITIAL TEST ONLY).
- I. OXYGEN.
- J. NITROGEN.
- K. MOISTURE CONTENT.
- L. TEMPERATURE.
- M. FLOW RATE.

THE REPORT SHALL ALSO PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR), GRAMS/BHP-HR, POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O2 (CO, NOx, AND TNMHC). ALSO PROVIDE ENGINE'S DEMONSTRATED EFFICIENCY AT FULL LOAD WITHOUT CONSIDERATION OF ANY DOWNSTREAM ENERGY RECOVERY FROM THE ACTUAL HEAT RATE, IN BTU/KW-HR, CORRECTED TO THE HIGHER HEATING VALUE (HHV) OF THE FUEL (OR FUEL BLEND).
[RULE 404, RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), RULE 1303(b)(2)-Modeling & Offset]

21. EMISSIONS FROM THIS ENGINE SHALL NOT EXCEED THE FOLLOWING:

CONTAMINANT	LBS/HR
CO	9.86
NOX (AS NO2)	2.35
PM10	0.23
ROG (AS CH4)	1.01
SOX (AS SO2)	0.20

[RULE 404, RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), RULE 1303(b)(2)-Modeling & Offset]



**FACILITY PERMIT TO OPERATE
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22. ALL RECORDS SHALL BE KEPT AND MAINTAINED FOR A PERIOD OF AT LEAST FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
CO: 2000 PPMV @ 15% O₂, DRY, RULE 1110.2
CO: 250 PPMV @ 15% O₂, DRY, (EFFECTIVE 1/1/2016), RULE 1110.2
CO: 2.1 G/BHP-HR, RULE 1303(a)(1)-BACT/LAER
ROG: 250 PPMV @ 15% O₂, DRY, RULE 1110.2
ROG: 30 PPMV @ 15% O₂, DRY, (EFFECTIVE 1/1/2016), RULE 1110.2
ROG: 0.216 G/BHP-HR, RULE 1303(a)(1)-BACT/LAER
NOx: 36 PPMV @ 15% O₂, DRY, RULE 1110.2
NOx: 11 PPMV @ 15% O₂, DRY, (EFFECTIVE 1/1/2016), RULE 1110.2
NOx: 0.50 G/BHP-HR, RULE 1303(a)(1)-BACT/LAER



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

PERMIT TO OPERATE

Permit No. G28962
A/N 536397

Equipment Description:

COGENERATION SYSTEM CONSISTING OF:

1. BLENDED FUEL GAS STORAGE TANK (DIGESTER GAS, DIGESTER GAS/NATURAL GAS).
2. INTERNAL COMBUSTION ENGINE, NO. 2, CATERPILLAR, MODEL NO. G3608, FOUR CYCLE, 8 CYLINDERS, LEAN BURN, TURBOCHARGED, AFTERCOOLED, FIRED WITH DIGESTER GAS OR DIGESTER GAS/NATURAL GAS BLEND, 2131 BHP, WITH HEAT RECOVERY SILENCER UNIT AND DRIVING A 1.5 MW ELECTRICAL GENERATOR.
3. HEAT EXCHANGERS, PUMPS, AIR COMPRESSORS, ORGANIC RANKINE CYCLE (ORC) SYSTEM, THERMAL ENERGY STORAGE AND ABSORPTION CHILLER SYSTEM, AND ORC BY-PASS.
4. EXHAUST STACK, 2'- 6" DIA. X 43' H. MINIMUM (COMMON TO ENGINE NO. 1 AND 2).

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL 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 SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. ANY HEAT, ELECTRICITY, OR POWER PRODUCED FROM THE ENGINE SHALL ONLY BE USED WITHIN AN INLAND EMPIRE UTILITIES AGENCY (IEUA) OWNED AND OPERATED ESSENTIAL PUBLIC SERVICE FACILITY.
[RULE 1303(b)(1)-Offsets, RULE 1309.1-Priority Reserve]
5. THIS ENGINE SHALL BE FIRED ONLY ON DIGESTER GAS AND DIGESTER GAS/NATURAL GAS BLEND FUEL, EXCEPT DURING INITIAL COMMISSIONING UTILIZING NATURAL GAS NOT TO EXCEED 150 OPERATING HOURS. THE OWNER OR OPERATOR SHALL NOTIFY SCAQMD 48 HOURS PRIOR TO THE START OF ENGINE COMMISSIONING.
[RULE 1110.2]



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6. THE MONTHLY AVERAGE DIGESTER GAS USAGE BY THE DIGESTER GAS ENGINES SHALL BE 90% OR MORE, BASED ON THE HIGHER HEATING VALUE OF THE FUELS USED. THE CALCULATION OF THE MONTHLY FACILITY DIGESTER GAS USE PERCENTAGE MAY EXCLUDE NATURAL GAS FIRED DURING ANY ELECTRICAL OUTAGE AT THE FACILITY AND A STAGE 2 OR HIGHER ELECTRICAL EMERGENCIES CALLED BY THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION.
[RULE 1110.2]
7. A NON-RESETTABLE, OPERATIONAL, TOTALIZING FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE AND RECORD THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL OR FUEL BLEND USED.
[RULE 204, RULE 1110.2]
8. SAMPLING PORT SHALL BE INSTALLED FOR THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A FUEL GAS OR FUEL BLEND SAMPLES.
[RULE 204]
9. THE TOTAL HEAT INPUT OF GASEOUS FUEL, OR FUEL BLEND, BURNED IN THIS ENGINE SHALL NOT EXCEED 15.1 MM BTU PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF FUEL GAS, OR FUEL BLEND, BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b)(1), RULE 1303(b)(2)-Modeling & Offset]
10. WEEKLY READINGS OF THE BTU CONTENT OF FUEL GAS (BTU/SCF) AT THE INLET TO THE ENGINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 204]
11. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF THE DAY.
[RULE 204]
12. THE ENGINE SHALL HAVE AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME FOR EACH FUEL OR FUEL BLEND BURNED.
[RULE 1110.2]
13. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION OF THE ENGINE SINCE THE LAST SOURCE TEST.[RULE 204, RULE 1110.2]



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14. THE OWNER OR OPERATOR SHALL PROVIDE 100% BACKUP CONTROL FOR THE FUEL GAS OR FUEL BLEND NOT UTILIZED BY THE ENGINE(S) AND FUEL GAS SHALL BE DIRECTED TO THE FLARE FOR COMBUSTION OR ANY OTHER COMBUSTION OR PROCESSING FACILITY, WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 402, RULE 1303(a)(1)-BACT, RULE 1401]
15. OPERATION OF THIS ENGINE SHALL NOT RESULT IN THE RELEASE OF RAW FUEL GAS, OR FUEL BLEND, INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF FUEL GAS SHALL BE REPORTED PURSUANT TO RULE 430 REQUIREMENTS AND DIRECTLY TO THE SCAQMD MANAGER OF THE REFINERY AND WASTE MANAGEMENT TEAM WITHIN ONE HOUR AFTER OCCURRENCE, OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, RULE 430]
16. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
17. ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, WITH ITS SAFE ACCESS SHALL BE INSTALLED AND MAINTAINED IN THE EXHAUST STACK IN ACCORDANCE WITH RULE 217 AND SCAQMD'S APPROVAL.
[RULE 217]
18. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEASURE THE ENGINE EXHAUST CONCENTRATION FOR NO_x AND O₂, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO_x CONCENTRATION TO A CORRECTED NO_x CONCENTRATION AT 15% O₂ AND CONTINUOUSLY RECORD THE STACK NO_x CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER. AN ALTERNATIVE OR PREDICTIVE EMISSIONS MONITORING SYSTEM (PEMS) MAY BE SUBMITTED CONCURRENTLY WITH THE AFOREMENTIONED CEMS.
[RULE 218, RULE 1110.2]
19. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 9/7/2012, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2]
20. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST WITHIN 90 DAYS AFTER ACHIEVING A DIGESTER GAS FLOW RATE OF AT LEAST 274 SCFM (12.08 MMBTU/HR) BASED ON A 30-DAY AVERAGE, BUT NO LATER THAN TWO YEARS FROM THE ISSUANCE OF THIS PERMIT, AND AT LEAST ONCE EVERY TWO (2) YEARS THEREAFTER, OR EVERY 8,760 OPERATING HOURS WHICHEVER OCCURS FIRST, UNLESS OTHERWISE APPROVED BY THE EXECUTIVE OFFICER. THE APPLICANT SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN 60 DAYS AFTER TESTING.



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RELATIVE ACCURACY TESTS REQUIRED BY RULE 218.1 OR 40 CFR 75 SUBPART E WILL SATISFY THE NON-INITIAL SOURCE TESTING REQUIREMENT FOR THOSE POLLUTANTS MONITORED BY A CEMS. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. WRITTEN NOTICE OF THE PERFORMANCE TESTS SHALL BE PROVIDED TO THE SCAQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS, BY AN INDEPENDENT TESTING LABORATORY UNDER RULE 304 (NO CONFLICT OF INTEREST), SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 45 DAYS PRIOR TO START OF THE TESTS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET FUEL GAS (INCLUDING BTU/SCF, SILOXANES), AND THE ENGINE EXHAUST FOR:

- A. HYDROCARBONS (METHANE AND NON-METHANE, INITIAL TEST ONLY).
- B. CARBON MONOXIDE (EXHAUST ONLY).
- C. OXIDES OF NITROGEN (EXHAUST ONLY).
- D. CARBON DIOXIDE.
- E. TOTAL PARTICULATES (EXHAUST ONLY, INITIAL TEST ONLY).
- F. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY).
- G. ALDEHYDES (EXHAUST ONLY, INITIAL TEST ONLY).
- H. TOXIC AIR CONTAMINANTS INCLUDING, BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1,1-DICHLOROETHENE, DICHOLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS (INITIAL TEST ONLY).
- I. OXYGEN.
- J. NITROGEN.
- K. MOISTURE CONTENT.
- L. TEMPERATURE.
- M. FLOW RATE.

THE REPORT SHALL ALSO PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR), GRAMS/BHP-HR, POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O2 (CO, NOx, AND TNMHC). ALSO PROVIDE ENGINE'S DEMONSTRATED EFFICIENCY AT FULL LOAD WITHOUT CONSIDERATION OF ANY DOWNSTREAM ENERGY RECOVERY FROM THE ACTUAL HEAT RATE, IN BTU/KW-HR, CORRECTED TO THE HIGHER HEATING VALUE (HHV) OF THE FUEL (OR FUEL BLEND).
[RULE 404, RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), RULE 1303(b)(2)-Modeling & Offset]

21. EMISSIONS FROM THIS ENGINE SHALL NOT EXCEED THE FOLLOWING:

CONTAMINANT	LBS/HR
CO	9.86
NOX (AS NO2)	2.35
PM10	0.23
ROG (AS CH4)	1.01
SOX (AS SO2)	0.20

[RULE 404, RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), RULE 1303(b)(2)-Modeling & Offset]



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22. ALL RECORDS SHALL BE KEPT AND MAINTAINED FOR A PERIOD OF AT LEAST FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
CO: 2000 PPMV @ 15% O₂, DRY, RULE 1110.2
CO: 250 PPMV @ 15% O₂, DRY, (EFFECTIVE 1/1/2016), RULE 1110.2
CO: 2.1 G/BHP-HR, RULE 1303(a)(1)-BACT/LAER
ROG: 250 PPMV @ 15% O₂, DRY, RULE 1110.2
ROG: 30 PPMV @ 15% O₂, DRY, (EFFECTIVE 1/1/2016), RULE 1110.2
ROG: 0.216 G/BHP-HR, RULE 1303(a)(1)-BACT/LAER
NO_x: 36 PPMV @ 15% O₂, DRY, RULE 1110.2
NO_x: 11 PPMV @ 15% O₂, DRY, (EFFECTIVE 1/1/2016), RULE 1110.2
NO_x: 0.50 G/BHP-HR, RULE 1303(a)(1)-BACT/LAER



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, < 53 FT³, WITH DUST FILTER.

Periodic Monitoring:

1. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
[RULE 3004(a)(4)]
2. THE OPERATOR SHALL DISCHARGE DUST COLLECTED IN THIS EQUIPMENT ONLY INTO CLOSED CONTAINERS.
[RULE 3004(a)(4)]
3. 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 AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL 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, THE OPERATOR SHALL 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. 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; AND
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED.
[RULE 3004(a)(4)]



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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL UNHEATED, NON-CONVEYORIZED

Emissions and Requirements:

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

VOC: RULE 1122

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILER, WITH RATED HEAT INPUT STARTING AT 75, 000 BTU/HR UP TO AND INCLUDING 2 MMBTU/HR.

Emissions and Requirements:

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

PM: 0.1 gr/scf, RULE 409

CO: 2000 PPMV, RULE 407

NO_x: 30 PPMV @3% O₂, DRY-TYPE 2 UNIT, > 400,000 BTU/HR AND ≤2 MM BTU/HR, RULE 1146.2

NO_x: 55 PPMV @3% O₂, DRY-TYPE 1 UNIT, ≥ 400,000 BTU/HR AND ≤400,000 BTU/HR, RULE 1146.2



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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 REGULATION:

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, AIR CONDITIONING UNITS.

Emissions and Requirements:

- I. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1415

VOC: 40CFR 82 SUBPART F



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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 REGULATION:

HALON: RULE 1418



**FACILITY PERMIT TO OPERATE
INLAND EMPIRE UTILITIES AGENCY**

**Permit to Construct and Temporary Permit to Operate
(Section H)**

This section consists of a table listing all individual Permits to Construct issued to various equipment at the facility. Each permit will list operating conditions, including periodic monitoring requirements and applicable emission limits and requirements. Also included is the rule origin and authority of each emission limit and permit condition.



**FACILITY PERMIT TO OPERATE
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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 No.	Equipment Description	Page No.
536399	AIR POLLUTION CONTROL SYSTEM, BIOFILTER (> 100 CFM), supersedes Permit F72330, A/N 388295	4
536401	DIGESTED EFFLUENT LIQUID WASTE PROCESSING	8

NOTE: EQUIPMENT LISTED ABOVE 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.



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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 RINGLEMANN 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. THIS FACILITY SHALL NOT EMIT TOTAL SULFUR COMPOUNDS AT 5 POUNDS PER DAY OR MORE, CALCULATED AS HYDROGEN SULFIDE. IF THIS LIMIT IS EXCEEDED AT ANY ONE DAY, THE OPERATOR SHALL NOT USE SEWAGE DIGESTER GAS CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED DAILY, OR 40 PPMV AND 500 PPMV WITH AN AVERAGING PERIOD OF MONTHLY AND 15 MINUTES, RESPECTIVELY; THE OPERATOR SHALL NOT USE OTHER GASES CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE WITH AN AVERAGING PERIOD OF 4 HOURS; OR SHALL USE GASEOUS FUELS IN ACCORDANCE WITH THE ALTERNATIVE MONITORING PLAN APPROVED BY SCAQMD IN ACCORDANCE WITH RULE 431.1.
[RULE 431.1]
3. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]
4. THE OWNER OR OPERATOR SHALL COMPLY WITH ALL APPLICABLE CONTENTS OF THE ADDENDUM, MITIGATION MEASURES STIPULATED IN THE STATEMENT OF FINDINGS AND STATEMENT OF OVERRIDING CONSIDERATIONS WHICH ARE PART OF THE CERTIFIED FACILITIES MASTER PLANS PROGRAM ENVIRONMENTAL IMPACT REPORT (FMP PEIR).
[RULE 204]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

PERMIT TO CONSTRUCT

A/N 536399
Granted as of 12/14/2012

Equipment Description:

ALTERATION OF THE AIR POLLUTION CONTROL SYSTEM UNDER PERMIT F72330, A/N 388295
CONSISTING OF:

1. BIOFILTER, CUSTOM MADE, MULTI-COMPARTMENTS, 37'- 0" W. X 74'- 0" L. X 9'- 0" D. OVERALL DIMENSIONS EACH COMPARTMENT, CONTAINING BIOFILTER MEDIA, WITH INCOMING FOUL AIR HUMIDIFICATION AND SURFACE IRRIGATION SYSTEM.
2. EXHAUST SYSTEM WITH A 60 H.P. FAN, HARTZELL FAN, INC., MODEL 412-44-FAU3-STFC13, 29,000 CFM, SERVING THE DAIRY MANURE RECEIVING AND DELIVERY BUILDING, CONTAINING MANURE HANDLING, LOADING/UNLOADING, STORAGE, HEATING / MIXING TANKS, SLUDGE DEWATERING, AND SLUDGE-CAKE STORAGE OPERATIONS;

BY REPLACEMENT OF THE FOLLOWING:

1. "37'- 0" W. X 74'- 0" L. X 9'- 0" D. OVERALL DIMENSIONS EACH COMPARTMENT" WITH "74'- 0" W. X 111'- 0" L. X 9'- 0" D. OVERALL BIOFILTER DIMENSIONS" (ITEM NO. 1).
2. "DAIRY MANURE RECEIVING AND DELIVERY BUILDING" WITH "FOOD WASTE AND DAIRY MANURE RECEIVING AND DEWATERING BUILDING" (ITEM NO. 2).

AND BY ADDITION OF THE FOLLOWING:

1. OPTIONAL ADDITION OF 5 FT. OF MEDIA IN WIDTH, 16 FT. OF MEDIA IN LENGTH, AND 2 FT. OF MEDIA IN HEIGHT TO THE OVERALL DIMENSIONS OF THE BIOFILTER, AND/OR OPTIONAL REDUCTION OF 3 FT. OF MEDIA IN HEIGHT TO THE BIOFILTER (ITEM NO. 1).
2. OPTIONAL SHORING EQUIPMENT ALONG THE SIDES OF THE BIOFILTER, INCLUDING CONCRETE BARRIERS, SUCH AS K-RAILS, OR EQUIVALENT EQUIPMENT.
3. VENTING THE DIGESTED EFFLUENT WASTEWATER TREATMENT SYSTEM AND FOUR (4) 15,000 GALLON LIQUID FOOD WASTE STORAGE TANKS, VENTED THROUGH THE RECEIVING AND DELIVERY BUILDING (ITEM NO. 2).

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]



FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE CONSTRUCTED, OPERATED AND MAINTAINED BY PROPERLY TRAINED PERSONNEL.
[RULE 204]
4. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT IS NOT COMPLETED WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]
5. THIS EQUIPMENT SHALL BE IN FULL OPERATION WHENEVER THE FOOD WASTE AND DAIRY MANURE RECEIVING AND DEWATERING BUILDING, DIGESTED EFFLUENT WASTEWATER TREATMENT SYSTEM, OR FOUR 15,000 GALLON FOOD WASTE TANKS ARE IN OPERATION, EXCEPT DURING A BIOFILTER MEDIA REPLACEMENT EVENT, WHICH SHUTS OFF OPERATION OF HALF OF THE BIOFILTER AT A TIME, WHICH SHALL NOT EXCEED 48 HOURS AND SHALL NOT OCCUR MORE THAN ONCE EVERY 3 YEARS, UNLESS OTHERWISE APPROVED. EACH REPLACEMENT EVENT SHALL BE RECORDED WITH DATE, TIME, DURATION AND PURPOSE OF THE SHUTDOWN.
[RULE 204]
6. SAMPLING/TESTING PORT(S) SHALL BE PROVIDED AT THE BIOFILTER FOUL AIR INLET LINE, ADEQUATELY SPACED DOWNSTREAM AND UPSTREAM OF ANY FLOW DISTURBANCE AS PER DISTRICT GUIDELINES AND AT 90 DEGREES APART, AND SHALL CONSIST OF ADEQUATE SIZE WELDED NIPPLES WITH CAPS, UNLESS OTHERWISE APPROVED.
[RULE 217]
7. THE INCOMING FOUL AIR HUMIDIFICATION AND SURFACE IRRIGATION SYSTEMS SHALL BE MAINTAINED IN GOOD OPERATING CONDITION, AT ALL TIMES, AND SHALL BE UTILIZED TO MAINTAIN THE BIOFILTER TO BE SUFFICIENTLY MOIST.
[RULE 402]
8. A CONTINUOUS FLOW INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE HEADER TO THE BIOFILTER TO INDICATE THE FLOW RATE IN STANDARD CUBIC FEET PER MINUTE (SCFM). IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW INDICATOR, A CONVERSION CHART SHALL BE POSTED ON THE EQUIPMENT TO INDICATE THE FLOW RATE (IN SCFM) CORRESPONDING TO THE PRESSURE READING. THE FLOW RATE AT THE INLET TO THE BIOFILTER SHALL BE INDICATED AND RECORDED AT LEAST ONCE PER WEEK. THE INLET FLOW RATE TO THE BIOFILTER SHALL NOT EXCEED 29,000 SCFM.
[RULE 204]
9. A TEMPERATURE INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE HEADER TO THE BIOFILTER. THE FOUL AIR TEMPERATURE SHALL BE INDICATED AND RECORDED AT LEAST ONCE PER WEEK.
[RULE 204]
10. THE TEMPERATURE OF THE BIOFILTER MEDIA SHALL BE MEASURED AT A MINIMUM OF 5 LOCATIONS AND RECORDED AT LEAST ONCE PER WEEK.
[RULE 204]



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11. THE MOISTURE CONTENT OF THE BIOFILTER MEDIA SHALL BE MEASURED USING A MOISTURE SENSOR AT A MINIMUM OF 5 LOCATIONS AND RECORDED AT LEAST ONCE PER WEEK. THE MOISTURE SENSOR SHALL BE CALIBRATED WITH EACH MONITORING VISIT.
[RULE 204]
12. THE OWNER OR OPERATOR SHALL CONDUCT DAILY INSPECTIONS TO MAKE SURE THAT THE BIOFILTER SURFACE IRRIGATION SPRINKLERS, INCLUDING WATER SUPPLY PUMPS, ARE OPERATING SATISFACTORILY AND ARE MAINTAINING THE BIOFILTER SURFACE SUFFICIENTLY MOIST. RECORDS OF SURFACE MONITORING, INCLUDING CORRECTIVE DAILY ACTIONS, IF NECESSARY, SHALL BE MAINTAINED.
[RULE 204]
13. THE OWNER OR OPERATOR SHALL CONDUCT DAILY INSPECTIONS TO MAKE SURE THAT THE BIOFILTER SURFACE DOES NOT CONTAIN APERTURES OR EXCESSIVE VEGETATION.
[RULE 204]
14. SMOKE BOMB TESTS SHALL BE CONDUCTED AT LEAST ANNUALLY TO DEMONSTRATE UNIFORM DISTRIBUTION OF AIR FLOWS, AND AREAS OF COMPACTION, AND/OR CHANNELING, THAT NEEDS REPAIR.
[RULE 204]
15. THE CONCENTRATION OF HYDROGEN SULFIDE (H₂S) AT THE BIOFILTER SURFACES (TOP AND SIDES) SHALL BE MEASURED, USING COLORIMETRIC TUBES OR A PORTABLE H₂S ANALYZER, AT LEAST ONCE PER MONTH. THE MEASURED H₂S CONCENTRATION SHALL NOT EXCEED 0.43 PPMV AVERAGED OVER THE SURFACE (AVERAGED OVER 25 POINTS, 6 OF WHICH SHALL BE MEASURED ON THE SIDES OF THE BIOFILTER IF SHORING EQUIPMENT IS NOT USED TO ENCLOSE THE SIDES) OF THE BIOFILTER. IF ANY SINGLE H₂S CONCENTRATION READING EXCEEDS 1 PPMV, THE OPERATOR SHALL INVESTIGATE, REPAIR, AND TAKE ANY OTHER CORRECTIVE ACTION NECESSARY UNTIL THE H₂S CONCENTRATION READING AT THE SAME LOCATION IS LESS THAN 1 PPMV H₂S. MONITORING RECORDS AND RECORDS OF CORRECTIVE ACTIONS SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 402, RULE 1401]
16. EMISSION FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:
TOTAL NON-METHANE ORGANIC COMPOUNDS (TNMOC) 1.08 LBS/HR
[RULE 1303(b)(2)-Offsets]
17. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT SOURCE PERFORMANCE TESTS WITHIN 180 DAYS OF OPERATION, OR AS OTHERWISE APPROVED BY THE EXECUTIVE OFFICER, UNDER THIS PERMIT AND EVERY FIVE YEARS THEREAFTER UNDER THE FOLLOWING CONDITIONS:
 - A. THE TESTS SHALL BE CONDUCTED AT 75% OR GREATER THAN THE MAXIMUM FOOD WASTE/DAIRY MANURE THROUGHPUT RATES.
 - B. A TEST PROTOCOL SHALL BE SUBMITTED TO SCAQMD NO LATER THAN 60 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE EXECUTIVE OFFICER BEFORE THE TEST COMMENCES. AT A MINIMUM, THE TEST PROTOCOL SHOULD INCLUDE THE FOLLOWING:



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- I. A DESCRIPTION OF THE EQUIPMENT TESTED. INCLUDE A PROCESS SCHEMATIC INDICATING SAMPLING LOCATIONS/PORTS, SAMPLING DUCT/STACK DIMENSIONS ALONG WITH UPSTREAM AND DOWNSTREAM FLOW DISTURBANCES (E.G. ELBOWS, TEES AND FANS).
 - II. A BRIEF PROCESS DESCRIPTION.
 - III. OPERATING CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED, INCLUDING FLOW RATE, TEMPERATURE, PRESSURE, AND THROUGHPUT.
 - IV. A DESCRIPTION OF THE SAMPLING AND ANALYTICAL METHODS FOR EACH CONSTITUENT MEASURED.
 - V. COMPLETE CALCULATIONS FOR FLOW RATES, CONCENTRATIONS, EMISSION RATES AND EFFICIENCIES.
 - VI. A DESCRIPTION OF THE CALIBRATION AND QUALITY ASSURANCE PROCEDURES.
 - VII. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
 - VIII. A STATEMENT DETERMINING THAT THE TESTING LABORATORY QUALIFIES AS AN "INDEPENDENT TESTING LABORATORY" UNDER RULE 304 (NO CONFLICT OF INTEREST) AND SIGNED BY THE RESPONSIBLE AUTHORITY.
- C THE BIOFILTER TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO:
- A. TOTAL NON METHANE ORGANIC COMPOUNDS (TNMOC).
 - B. SPECIATED ORGANICS (INITIAL TEST ONLY, OUTLET ONLY).
 - C. TOTAL SULFUR COMPOUNDS AS H₂S.
 - D. AMMONIA.
- ALL COMPOUNDS SHALL BE TESTED AT THE INLET AND OUTLET OF THE BIOFILTER AND RESULTS REPORTED IN UNITS OF PPMV AND LBS/HR, UNLESS OTHERWISE NOTED.
[RULE 217, RULE 204, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets, RULE 1401]
18. THE OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED ON THE BIOFILTER.
[RULE 204]
 19. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]



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PERMIT TO CONSTRUCT

A/N 536401
Granted as of 12/14/2012

Equipment Description:

DIGESTED EFFLUENT LIQUID WASTE PROCESSING SYSTEM CONSISTING OF:

1. ROTATING SLUDGE THICKENER (RST) SYSTEM, 300 GPM MAXIMUM FLOW, WITH HORIZONTAL CYLINDRICAL DRUM AND INTERNALLY FED ROTARY SCREEN.
2. DISSOLVED AIR FLOATATION (DAF) SYSTEM, 300 GPM MAXIMUM FLOW, WITH ONE (1) TANK, WITH POLYMER FEED AND STORAGE SYSTEM, AND ASSOCIATED MIXERS AND PUMPS.
3. OPTIONAL MOVING BED BIOFILM REACTOR (MBBR) SYSTEM WITH ASSOCIATED PUMPS.

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 EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT IS NOT COMPLETED WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]
5. THE TOTAL GALLONS OF DIGESTED EFFLUENT PROCESSED AND DISCHARGED BY THIS EQUIPMENT SHALL BE MEASURED (BY FLOW METERS) AND RECORDED ON A DAILY BASIS.
[RULE 204]
6. THIS EQUIPMENT SHALL NOT EMIT GREATER THAN 0.49 POUNDS PER DAY OF VOLATILE ORGANIC COMPOUNDS.
[RULE 1303]
7. THIS EQUIPMENT WHEN IN OPERATION SHALL BE VENTED TO AN AIR POLLUTION CONTROL SYSTEM (BIOFILTER) WHICH IS IN GOOD OPERATING CONDITION, IN FULL OPERATION, AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.
[RULE 204]



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8. ANY SOLID WASTE MATERIAL GENERATED FROM THE DIGESTED EFFLUENT LIQUID WASTE PROCESSING SYSTEM SHALL BE RETURNED TO THE RECEIVING PITS/STORAGE MIX TANKS OR DIGESTERS, OR STORED IN DUMPSTERS WITH TIGHT LIDS FOR DISPOSAL.
[RULE 204]
9. THE DIGESTED EFFLUENT AT THE INLET TO THIS EQUIPMENT AND THE FINAL EFFLUENT AT THE OUTLET OF THIS EQUIPMENT SHALL BE SAMPLED, ANALYZED, AND THE RESULTS RECORDED ON A MONTHLY BASIS FOR TOTAL SOLIDS CONTENT, TOTAL SULFUR COMPOUNDS AS H₂S (PPMV), VOLATILE ORGANIC COMPOUNDS, AND VOLATILE ORGANICS SPECIATED (ONLY ONCE DURING THE FIRST MONTH OF OPERATION UNDER THIS PERMIT). AFTER ONE YEAR OF OPERATION, THE OWNER OR OPERATOR MAY REQUEST IN WRITING FOR LESS FREQUENT SAMPLING AND ANALYSIS OF THE LIQUID WASTE.
[RULE 204]
10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]