

## **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 INLAND EMPIRE UTILITIES AGENCY

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## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

### SECTION A: FACILITY INFORMATION

**LEGAL OWNER &/OR OPERATOR:** INLAND EMPIRE UTILITIES AGENCY

**LEGAL OPERATOR (if different than owner):**

**EQUIPMENT LOCATION:** 6063 KIMBALL AVE  
CHINO, CA 91710

**MAILING ADDRESS:** 6063 KIMBALL AVE  
CHINO, CA 91710

**RESPONSIBLE OFFICIAL:** THOMAS LOVE

**TITLE:** GENERAL MANAGER

**TELEPHONE NUMBER:** (909) 993-1730

**CONTACT PERSON:** CHRIS BERCH

**TITLE:** MANAGER OF PLANNING & ENVIRO.  
COMPLIANCE

**TELEPHONE NUMBER:** (909) 993-1762

**INITIAL TITLE V PERMIT ISSUED:** August 28, 2006

**TITLE V PERMIT EXPIRATION DATE:** August 27, 2011

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

**FACILITY PERMIT TO OPERATE  
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**SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE  
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**SECTION C: FACILITY PLOT PLAN**

(TO BE DEVELOPED)

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

**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.

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMITTED EQUIPMENT LIST

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

<b>Application No.</b>	<b>Permit No.</b>	<b>Equipment Description</b>	<b>Page No.</b>
357035	TBD	SEWAGE TREATMENT (>5 MGD) AEROBIC	4
357036	TBD	BIOFILTER (>100 CFM)	6
388295	F72330	BIOFILTER (>100 CFM)	7
388300	F72331	DAIRY MANURE PROCESSING PLANT	9
433177	F71712	STORAGE TANK DIGESTER GAS	12
475166	F96118	I C E (50-500 HP) EMERGENCY ELEC. GEN-DIESEL	13
489261	G2898	I C E (>500 HP) EMERGENCY ELEC. GEN-DIESEL	15
489264	G2899	I C E (>500 HP) EMERGENCY ELEC. GEN-DIESEL	17

**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 (IEUA), RP-5**

### **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. THE OPERATOR SHALL NOT USE 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, OR 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 (IEUA), RP-5

### PERMIT TO OPERATE

Permit No. TBD  
A/N 357035

#### Equipment Description:

WASTEWATER TREATMENT PLANT (REGIONAL PLANT NO. 5), 12 MGD CAPACITY (PHASE -1),  
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 FT<sup>2</sup> 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.

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

**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 1303(a)(1)-BACT]
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 AQMD PERSONNEL UPON REQUEST.  
[RULE 3004(a)(4)]

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

**PERMIT TO OPERATE**

**Permit No. TBD  
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 H<sub>2</sub>S EMISSIONS FROM THE BIOFILTER SHALL BE MEASURED AT LEAST ONCE PER WEEK, AT A MINIMUM OF 10 POINTS, REPRESENTATIVE OF THE ENTIRE SURFACE. THE H<sub>2</sub>S 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 (IEUA), RP-5

### 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 H<sub>2</sub>S AT THE BIOFILTER SURFACES (TOP AND SIDES) SHALL BE MEASURED, USING COLORIMETRIC TUBES OR A PORTABLE H<sub>2</sub>S ANALYZER, AT LEAST ONCE PER MONTH. THE MEASURED H<sub>2</sub>S CONCENTRATION SHALL NOT EXCEED 1 PPMV AVERAGED OVER THE SURFACE (AVERAGED OVER 25 POINTS) OF THE BIOFILTER. RECORDS FOR H<sub>2</sub>S 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]

**FACILITY PERMIT TO OPERATE  
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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 AQMD PERSONNEL UPON REQUEST.  
[RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMIT TO OPERATE

Permit No. F72331  
A/N 388300

#### Equipment Description:

#### DAIRY MANURE PROCESSING OPERATION CONSISTING OF:

1. MANURE RECEIVING AND DEWATERING BUILDING, INCLUDING TRUCK SCALES, SCREENING, DRY MANURE STORAGE AND SLUDGE-CAKE STORAGE, VENTED TO AN AIR POLLUTION CONTROL SYSTEM.
2. ONE (1) LOAD TANK, ONE (1) FEED TANK, WITH SLUDGE MIXERS AND ASSOCIATED PUMPS.
3. ONE SHELL AND TUBE HEAT EXCHANGER (HE-2) FOR EACH MIX TANK, WITH 300 LINEAL FEET OF 2" BLACK PIPING AND HOT WATER CIRCULATION PUMP.
4. SHELL AND TUBE HEAT EXCHANGER (HE-1), 50 GPM, OR EQUIVALENT.
5. PLUG-FLOW ANAEROBIC DIGESTER, HEATED, 225 TONS OF WET MANURE PER DAY PROCESSING CAPACITY, CONCRETE, 195' L. X 60' W. X 14' D., BELOW GROUND LEVEL, WITH A GAS-TIGHT CONCRETE COVER.
6. HYDROGEN SULFIDE (H<sub>2</sub>S) REMOVAL AND GAS PURIFICATION SYSTEM WITH A CONDENSATE KNOCK-OUT POT/DEMISTER, COMPRESSOR, AFTERCOOLER AND GAS/LIQUID SEPARATOR AND A GAS DRYER (DELIQUESCENT OR REFRIGERATION TYPE) SYSTEM.
7. DIGESTER GAS (BIOGAS) HANDLING AND TREATMENT SYSTEM CONSISTING OF:  
  
ASSOCIATED PUMPS AND PIPING SYSTEM, INCLUDING WATER TRAPS.  
IRON SPONGE SULFUR REMOVAL UNIT.
8. STORAGE TANK, DIGESTER EFFLUENT, 53,957 GALLONS PER DAY.
9. SLUDGE DEWATERING SYSTEM CONSISTING OF;  
  
TWO (2) MANURE PUMPS, EACH 7.5 HP.  
ONE SCREW PRESS, 40 H.P., WITH PERFORATED SCREEN.  
CENTRIFUGE, ANDRITZ, MODEL D5LL, 30 HP., OR EQUIVALENT.  
PACKAGED POLYMER SYSTEM CONTROL SYSTEM TO MAINTAIN WATER FLOW RATE AND SELECTED DILUTE POLYMER CONCENTRATION IN FEED SOLUTION.  
ONE SCREW CONVEYOR FOR DISCHARGE AND A LOADING CONVEYOR.
10. STORAGE TANK, FILTRATE, 100,000 GALLON CAPACITY, 42,126 GALLONS PER DAY (BRINE) DISCHARGE RATE TO SANTA ANA RIVER INTERCEPTOR (SARI).
11. SLUDGE CAKE (BIOSOLIDS) TO COMPOSTING FACILITY.

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

12. RECEIVING/DEWATERING BUILDING WITH EXHAUST VENTED TO AN ODOR CONTROL UNIT, BIOFILTER (A/N 388295).

**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. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1127.  
[RULE 1127]
5. MANURE RECEIVING AND SLUDGE DEWATERING BUILDINGS WHEN IN OPERATION SHALL BE VENTED ALL TIME TO AN AIR POLLUTION CONTROL SYSTEM (BIOFILTER) WHICH IS IN FULL OPERATION AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.  
[RULE 1303(a)(1)-BACT]
6. HANDLING AND PROCESSING OF ANY DRY MANURE SHALL BE KEPT SUFFICIENTLY MOIST TO MINIMIZE ANY DUST EMISSIONS.  
[RULE 402]
7. ANY SOLID WASTE MATERIAL GENERATED DURING MANURE SCREENING PROCESS SHALL BE STORED IN DUMPSTERS WITH LIDS OR SHALL HAVE ODOR CONTROLS INSTALLED TO PREVENT RELEASE OF ODORS TO ATMOSPHERE.  
[RULE 402]
8. THE TOTAL INFLUENT MANURE SLURRY FLOW PROCESSED BY THIS EQUIPMENT SHALL NOT EXCEED 55,200 GALLONS PER DAY, AND SHALL BE MEASURED AND RECORDED IN GALLONS PER DAY.  
[RULE 204]
9. DIGESTER GAS (BIOGAS) PRODUCED SHALL BE SAMPLED AND ANALYZED ON A QUARTERLY BASIS FOR THE FIRST YEAR OF OPERATION, AND THEN SEMI-ANNUALLY THEREAFTER FOR ITS CHEMICAL COMPOSITION, GROSS HEATING VALUE (BTU/SCF) AND TOTAL REDUCED SULFUR AS H<sub>2</sub>S (PPMV).  
[RULE 204]
10. THE SLUDGE CAKE (BIOSOLIDS) PRODUCED SHALL EITHER BE REMOVED ON A DAILY BASIS OR STORED ONSITE ONLY IN TIGHTLY CLOSED CONTAINERS.  
[RULE 402]

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11. ALL OF THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE INCINERATED IN THE FACILITY FLARE(S), ENGINE(S), MICROTURBINE(S), BOILER(S), OR OTHER COMBUSTION EQUIPMENT WHICH HAVE EITHER VALID PERMITS TO CONSTRUCT OR OPERATE OR EQUIPMENT HAVE BEEN DETERMINED TO BE RULE 219 EXEMPT.  
[RULE 402, RULE 1303(a)(1), RULE 1401]
  
12. 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 AQMD PERSONNEL UPON REQUEST.  
[RULE 204, RULE 3004]

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

**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]

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### 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 (IEUA), RP-5

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:	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 (IEUA), RP-5**

**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-RESETTING 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 (IEUA), RP-5

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 <sub>x</sub> +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 (IEUA), RP-5**

**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 (IEUA), RP-5

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 (IEUA), RP-5

### RULE 219 EQUIPMENT

#### Equipment Description:

RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, < 53 FT<sup>3</sup>, 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)]

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

### **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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### 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

NOx: 30 PPMV @3% O<sub>2</sub>, DRY-TYPE 2 UNIT, > 400,000 BTU/HR AND  $\leq$  MM BTU/HR, RULE 1146.2

NOx: 55 PPMV @3% O<sub>2</sub>, DRY-TYPE 1 UNIT,  $\geq$  400,000 BTU/HR AND  $\leq$  400,000 BTU/HR, RULE 1146.2

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### 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

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

### **RULE 219 EQUIPMENT**

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS.

**Emissions and Requirements:**

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

VOC: RULE 1415

VOC: 40CFR 82 SUBPART F

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

**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**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

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

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

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

### **SECTION E: ADMINISTRATIVE CONDITIONS**

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
  - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
  - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
  - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
  - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO<sub>2</sub>) and be averaged over 15 consecutive minutes; [407]
  - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

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

### **SECTION E: ADMINISTRATIVE CONDITIONS**

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
  - a. Brief description of the equipment tested.
  - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
  - f. Description of calibration and quality assurance procedures.
  - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
  - a. The results of the source test.

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

### **SECTION E: ADMINISTRATIVE CONDITIONS**

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

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

**SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS**

**NOT APPLICABLE**

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

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

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

**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 INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMITTED EQUIPMENT LIST

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

<b>Application No.</b>	<b>Equipment Description</b>	<b>Page No.</b>
448345	FLARE, ENCLOSED LFG/DG, (SHF)	3
449064	BOILER (<5 MMBTU/HR) OTHER FUEL	7
449065	BOILER (<5 MMBTU/HR) OTHER FUEL	10
449691	I C E (>500 HP) OTHER FUEL-REEP	13
449694	I C E (>500 HP) OTHER FUEL-REEP	17
451067	DAIRY MANURE PROCESSING PLANT	21

**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 (IEUA), RP-5

### PERMIT TO CONSTRUCT

A/N 448345  
Granted as of 08/28/2006

#### Equipment Description:

ENCLOSED FLARE, EMERGENCY STAND-BY, DAIRY MANURE/FOOD WASTE DIGESTER GAS (BIOGAS) FIRED, LFG SPECIALTIES, MODEL EF-73516 OR EQUIVALENT, 7'- 0" DIA. X 35' - 0" OVERALL H., WITH A 32.4 MMBTU PER HOUR BURNER, 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. PRIOR TO OPERATION OF THIS FLARE, THE EXISTING PERMITTED FLARE (PERMIT TO OPERATE F71869) OPERATIONS SHALL BE DISCONTINUED AND BIOGAS SUPPLY LINE TO THE FLARE SHALL BE ISOLATED. THE PERMIT TO OPERATE (F71869) SHALL BE SURRENDERED TO AQMD FOR INACTIVATION.  
[RULE 204]
5. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD FINAL FLARE DESIGN DRAWINGS, P & I DIAGRAMS, CONTROLS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL, DIMENSIONS, SIZE AND MAXIMUM CAPACITY) PRIOR TO INSTALLATION OF THE EQUIPMENT.  
[RULE 204]
6. 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]
7. A FLOW INDICATOR 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]

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

8. 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]
9. 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]
10. 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 1303(b)(1), 1303(b)(2)-Modeling & Offsets, RULE 1401]
11. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO TIME OF THE DAY.  
[RULE 204]
12. IN CASE OF AN EMERGENCY ALL DIGESTER GAS, PROCESSED BY THE HYDROGEN SULFIDE (H<sub>2</sub>S) REMOVAL AND GAS PURIFICATION SYSTEM, SHALL BE DIRECTED TO THE FLARE FOR COMBUSTION.  
[RULE 402, RULE 1401]
13. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST AND SHALL SUBMIT A WRITTEN REPORT TO THE AQMD WITHIN 60 DAYS AFTER ACHIEVING MAXIMUM DIGESTER GAS FLOW RATE, BUT NOT LATER THAN 180 DAYS AFTER INITIAL STARTUP. THESE TESTS SHALL DETERMINE;
  - A. TEST OF THE INLET GAS TO FLARE AND THE FLARE EXHAUST FOR:
    1. METHANE
    2. TOTAL NON-METHANE ORGANIC COMPOUNDS (TNMOCs)
    3. OXIDES OF NITROGEN (EXHAUST ONLY)
    4. CARBON MONOXIDE (EXHAUST ONLY)
    5. CARBON DIOXIDE
    6. HYDROGEN SULFIDE (INLET ONLY)
    7. QUALITATIVE IDENTIFICATION OF CHEMICAL COMPOUNDS USING A GAS CHROMATOGRAPH/MASS SPECTROMETRY METHOD (GC/MS) FOR ITS VOLUME CONCENTRATION (EXHAUST ONLY).
    8. OXYGEN
    9. NITROGEN
    10. MOISTURE CONTENT
    11. TEMPERATURE

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### 12. FLOW RATE

THE REPORT SHALL INCLUDE EMISSIONS OF CO, NO<sub>x</sub>, TNMOCs, PM10, AND SO<sub>x</sub>, IN UNITS OF LBS/HR, LBS/MM BTU HEAT INPUT, AND PPMV (EXCEPT PM10).

- B. A TEST PROTOCOL SHALL BE SUBMITTED TO THE AQMD, TOXICS AND WASTE MANAGEMENT TEAM, NOT LATER THAN 30 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY AQMD BEFORE THE TEST COMMENCES.
- C. THE TEST SHALL BE PERFORMED BY A TESTING LABORATORY CERTIFIED TO MEET THE CRITERIA IN AQMD RULE 304(I) (CONFLICT OF INTEREST).
- D. THE AQMD 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 AQMD ENGINEER.
- E. SAMPLING FACILITIES SHALL COMPLY WITH AQMD "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]

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

POLLUTANT	LBS PER DAY
CO	46.6 (0.025 LBS/MMBTU)
NO <sub>x</sub>	19.4 (0.06 LBS/MMBTU)
PM10	14.2
ROG	5.5
SO <sub>x</sub>	1.40

[RULE 1303(a)(1)-BACT/LAER, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset, RULE 1401]

15. 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, RULE 1401]
16. 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 (IEUA), RP-5

### **Emissions and Requirements:**

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

CO: 2000 PPMV, RULE 407

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: 0.1 gr/scf, RULE 409

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMIT TO CONSTRUCT

A/N 449064  
Granted as of 12/15/2005

#### Equipment Description:

BOILER, NO. 1, RITE BOILER, MODEL NO. 375WGGE OR EQUIVALENT, WATER TUBE TYPE, WITH POWER FLAME MODEL NUMBER NVCR4-GG-30 LOW NO<sub>x</sub> 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. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD, FINAL BOILER SELECTION, DESIGN DRAWINGS, P & I DIAGRAMS, CONTROLS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL, TYPE, AND MAXIMUM HEAT INPUT CAPACITY, EMISSIONS GUARANTEES, ETC.) PRIOR TO INSTALLATION OF THE EQUIPMENT.  
[RULE 204]
4. THIS EQUIPMENT SHALL BE FIRED WITH DIGESTER GAS ONLY AND NATURAL GAS SHALL ONLY BE USED AS A STAND-BY FUEL.  
[RULE 1303]
5. SULFUR CONTENT OF DIGESTER GAS FUEL SUPPLIED TO THIS EQUIPMENT SHALL NOT EXCEED 40 PPMV.  
[RULE 431.1]
6. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND INDICATE THE AMOUNT OF FUEL (SCFM) BURNED IN THIS EQUIPMENT.  
[RULE 1303(a)(1)-BACT/LAER, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset, RULE 1401]
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 (IEUA), RP-5

8. EMISSIONS FOR OXIDES OF NITROGEN (NO<sub>x</sub>) AND CARBON MONOXIDE (CO) SHALL NOT EXCEED THE FOLLOWING LIMITS AND SHALL BE MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O<sub>2</sub>.

<u>FUEL USED</u>	<u>NO<sub>x</sub> AS NO<sub>2</sub></u>	<u>CO</u>
DIGESTER GAS	30 PPMV	100 PPMV
NATURAL GAS	12 PPMV	100 PPMV

[RULE 1303(a)(1)-BACT/LAER, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset, RULE 1401]

9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
- A. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THIS TEST.
  - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO AQMD WITHIN 30 DAYS OF INITIAL START UP AND SHALL BE APPROVED BY AQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
  - C. SAMPLING FACILITIES SHALL COMPLY WITH AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES" PURSUANT TO RULE 217.
  - D. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 CALENDAR DAYS AFTER NORMAL OPERATION OF THE EQUIPMENT HAS BEEN ESTABLISHED, BUT NO LATER THAN 180 DAYS AFTER INITIAL START UP.
  - E. THE SOURCE TESTS SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND AVERAGE LOAD FOR EACH FUEL TO BE BURNED. 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 AQMD ENGINEER IDENTIFIED ON THE PERMIT TO CONSTRUCT WITHIN 60 DAYS OF THE TESTS. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
    - 1. FUEL FLOWRATE
    - 2. FLUE GAS FLOWRATE
    - 3. METHANE
    - 4. TOTAL NON-METHANE ORGANICS
    - 5. TRACE ORGANICS (DIGESTER GAS ONLY)
    - 6. TOTAL PARTICULATES (DIGESTER GAS ONLY)
    - 7. OXIDES OF NITROGEN
    - 8. CARBON MONOXIDE
    - 9. OXYGEN
    - 10. NITROGEN
    - 11. MOISTURE
    - 12. DIGESTER GAS BTU (HHV) AND TOTAL SULFUR CONTENT (AS H<sub>2</sub>s, PPMV)

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

THE REPORT SHALL INCLUDE EMISSIONS OF CO, NO<sub>x</sub>, TNMOCs, PM<sub>10</sub>, AND SO<sub>x</sub>, IN UNITS OF LBS/HR, LBS/MM BTU HEAT INPUT, AND PPMV (EXCEPT PM<sub>10</sub>).

G. THE SOURCE TEST PROTOCOL AND REPORT SHALL BE SUBMITTED TO:

SCAQMD  
TOXICS AND WASTE MANAGEMENT TEAM  
ENGINEERING AND COMPLIANCE DIVISION  
21865 COPLEY DRIVE  
DIAMOND BAR, CA 91765

[RULE 217, RULE 404, RULE 1146.1, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset]

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

POLLUTANT	POUNDS PER DAY
CO	10.8
NO <sub>x</sub>	3.84 (1.30 WITH NATURAL GAS)
PM <sub>10</sub>	0.50
ROG	0.72
SO <sub>x</sub>	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 AQMD 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% O<sub>2</sub>, DRY BASIS, RULE 1146.1  
CO: 100 PPMV @3% O<sub>2</sub>, DRY BASIS, DIGESTER GAS & NATURAL GAS, RULE 1303(a)(1)-BACT  
NO<sub>x</sub> 30 PPMV @3% O<sub>2</sub>, DRY BASIS, OR 0.037 POUND NO<sub>x</sub> PER MMBTU OF HEAT INPUT, RULE 1146.1  
NO<sub>x</sub>: 12 PPMV @3% O<sub>2</sub>, DRY BASIS, WITH NATURAL GAS-MFGR GUARANTEE  
PM: 0.1 gr/scf, RULE 409

13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NO<sub>x</sub> EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1 (METHOD 7.1 FOR NO<sub>x</sub>); OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD... THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATIONS LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMIT TO CONSTRUCT

A/N 449065  
Granted as of 12/15/2005

#### Equipment Description:

BOILER, NO. 2, RITE BOILER, MODEL NO. 375WGGE OR EQUIVALENT, WATER TUBE TYPE, WITH POWER FLAME MODEL NUMBER NVCR4-GG-30 LOW NO<sub>x</sub> 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. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD, FINAL BOILER SELECTION, DESIGN DRAWINGS, P & I DIAGRAMS, CONTROLS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL, TYPE, AND MAXIMUM HEAT INPUT CAPACITY, EMISSIONS GUARANTEES, ETC.) PRIOR TO INSTALLATION OF THE EQUIPMENT.  
[RULE 204]
4. THIS EQUIPMENT SHALL BE FIRED WITH DIGESTER GAS ONLY AND NATURAL GAS SHALL ONLY BE USED AS A STAND-BY FUEL.  
[RULE 1303]
5. SULFUR CONTENT OF DIGESTER GAS FUEL SUPPLIED TO THIS EQUIPMENT SHALL NOT EXCEED 40 PPMV.  
[RULE 431.1]
6. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND INDICATE THE AMOUNT OF FUEL (SCFM) BURNED IN THIS EQUIPMENT.  
[RULE 1303(a)(1)-BACT/LAER, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset, RULE 1401]
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 (IEUA), RP-5

8. EMISSIONS FOR OXIDES OF NITROGEN (NO<sub>x</sub>) AND CARBON MONOXIDE (CO) SHALL NOT EXCEED THE FOLLOWING LIMITS AND SHALL BE MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O<sub>2</sub>.

<u>FUEL USED</u>	<u>NO<sub>x</sub> AS NO<sub>2</sub></u>	<u>CO</u>
DIGESTER GAS	30 PPMV	100 PPMV
NATURAL GAS	12 PPMV	100 PPMV

[RULE 1303(a)(1)-BACT/LAER, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset, RULE 1401]

9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
- A. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THIS TEST.
  - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO AQMD WITHIN 30 DAYS OF INITIAL START UP AND SHALL BE APPROVED BY AQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
  - C. SAMPLING FACILITIES SHALL COMPLY WITH AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES" PURSUANT TO RULE 217.
  - D. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 CALENDAR DAYS AFTER NORMAL OPERATION OF THE EQUIPMENT HAS BEEN ESTABLISHED, BUT NO LATER THAN 180 DAYS AFTER INITIAL START UP.
  - E. THE SOURCE TESTS SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND AVERAGE LOAD FOR EACH FUEL TO BE BURNED. 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 AQMD ENGINEER IDENTIFIED ON THE PERMIT TO CONSTRUCT WITHIN 60 DAYS OF THE TESTS. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
    - 1. FUEL FLOWRATE
    - 2. FLUE GAS FLOWRATE
    - 3. METHANE
    - 4. TOTAL NON-METHANE ORGANICS
    - 5. TRACE ORGANICS (DIGESTER GAS ONLY)
    - 6. TOTAL PARTICULATES (DIGESTER GAS ONLY)
    - 7. OXIDES OF NITROGEN
    - 8. CARBON MONOXIDE
    - 9. OXYGEN
    - 10. NITROGEN
    - 11. MOISTURE
    - 12. DIGESTER GAS BTU (HHV) AND TOTAL SULFUR CONTENT (AS H<sub>2</sub>s, PPMV)

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

THE REPORT SHALL INCLUDE EMISSIONS OF CO, NO<sub>x</sub>, TNMOCs, PM10, AND SO<sub>x</sub>, IN UNITS OF LBS/HR, LBS/MM BTU HEAT INPUT, AND PPMV (EXCEPT PM10).

G. THE SOURCE TEST PROTOCOL AND REPORT SHALL BE SUBMITTED TO:

SCAQMD  
TOXICS AND WASTE MANAGEMENT TEAM  
ENGINEERING AND COMPLIANCE DIVISION  
21865 COPLEY DRIVE  
DIAMOND BAR, CA 91765

[RULE 217, RULE 404, RULE 1146.1, RULE 1303(a)(1)-BACT, RULE 1303(b)(1), 1303(b)(2)-Modeling & Offset]

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

POLLUTANT	POUNDS PER DAY
CO	10.8
NO <sub>x</sub>	3.84 (1.30 WITH NATURAL GAS)
PM10	0.50
ROG	0.72
SO <sub>x</sub>	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 AQMD 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% O<sub>2</sub>, DRY BASIS, RULE 1146.1  
CO: 100 PPMV, @ 3% O<sub>2</sub>, DRY BASIS, DIGESTER GAS & NATURAL GAS, RULE 1303(a)(1)-BACT  
NO<sub>x</sub> 30 PPMV, @ 3% O<sub>2</sub>, DRY BASIS, OR 0.037 POUND NO<sub>x</sub> PER MM BTU OF HEAT INPUT, RULE 1146.1  
NO<sub>x</sub>: 12 PPMV, @ 3% O<sub>2</sub>, DRY BASIS, WITH NATURAL GAS-MFGR GUARANTEE  
PM: 0.1 gr/scf, RULE 409

13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NO<sub>x</sub> EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1 (METHOD 7.1 FOR NO<sub>x</sub>); OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD... THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATIONS LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMIT TO CONSTRUCT

A/N 449691  
Granted as of 08/28/2006

#### Equipment Description:

##### COGENERATION SYSTEM CONSISTING OF:

1. DIGESTER GAS/MANURE BIOGAS FUEL PURIFICATION AND PRETREATMENT SYSTEM (TO REMOVE SILOXANE, HALIDES, MOISTURE, IMPURITIES, AND HYDROGEN SULFIDE).
2. BLENDED FUEL GAS STORAGE TANK (DIGESTER GAS, BIOGAS, AND NATURAL GAS/AIR).
3. INTERNAL COMBUSTION ENGINE, NO. 1, CATERPILLAR, MODEL NO. G3608, FOUR CYCLE, 8 CYLINDERS, LEAN BURN, TURBOCHARGED, AFTERCOOLED, DIGESTER GAS FIRED WITH NATURAL GAS AUGMENTATION, 2131 BHP, WITH ASSOCIATED HEAT RECOVERY SILENCER UNIT AND DRIVING A 1.5 MW ELECTRICAL GENERATOR.
4. HEAT EXCHANGERS, ORGANIC RANKINE CYCLE (ORC) SYSTEM, THERMAL ENERGY STORAGE AND ABSORPTION CHILLING SYSTEM (WITH ORC BY-PASS AND COMMON TO ENGINE NO. 1 AND 2).
5. EXHAUST SILENCER, 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. 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]

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

5. THIS EQUIPMENT SHALL BE FIRED ONLY WITH DIGESTER GAS, MANURE BIOGAS OR MANURE BIOGAS/NATURAL GAS/AIR BLEND FUEL. THE FUEL BLEND, IF USED, SHALL HAVE ABOUT 60% VOLUME BIOGAS AND 40% VOLUME NATURAL GAS/AIR. THE HEATING VALUE OF THE FUEL BLEND SHALL BE EQUIVALENT TO DIGESTER GAS OR BIOGAS.  
[RULE 204]
6. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE FUEL GAS, OR FUEL BLEND, SUPPLY LINE TO THE ENGINE TO MEASURE AND RECORD THE QUANTITY OF FUEL GAS (IN SCFM) BEING BURNED.  
[RULE 204]
7. 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]
8. 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), 1303(b)(2)-Modeling & Offset]
9. 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]
10. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF THE DAY.  
[RULE 204]
11. 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]
12. 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 (EXAMPLE- BIOFILTER), 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]
13. 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 TO THE SCAQMD MANAGER OF TOXICS 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, RULE 1401]

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

14. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH THE SCAQMD RULE 431.1 AND RULE 1110.2.  
[RULE 1110.2]
15. 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]
16. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEASURE THE ENGINE EXHAUST CONCENTRATION FOR NO<sub>x</sub> AND O<sub>2</sub>, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO<sub>x</sub> CONCENTRATION TO A CORRECTED NO<sub>x</sub> CONCENTRATION AT 15% O<sub>2</sub> AND CONTINUOUSLY RECORD THE STACK NO<sub>x</sub> CONCENTRATION AT 15% O<sub>2</sub>. 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]
17. WITHIN 60 DAYS AFTER ACHIEVING THE MAXIMUM FUEL GAS FLOW RATE, AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NOT LATER THAN 180 DAYS AFTER INITIAL START-UP, AND AT LEAST ONCE EVERY THREE (3) YEARS THEREAFTER, 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. 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 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)
  - B. CARBON MONOXIDE (EXHAUST ONLY)
  - C. OXIDES OF NITROGEN (EXHAUST ONLY)
  - D. CARBON DIOXIDE
  - E. TOTAL PARTICULATES (EXHAUST ONLY)
  - F. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
  - G. ALDEHYDES (EXHAUST 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.
  - I. OXYGEN
  - J. NITROGEN
  - K. MOISTURE CONTENT

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

- 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% O<sub>2</sub> (CO, NO<sub>x</sub>, 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), 1303(b)(2)-Modeling & Offset]

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

CONTAMINANT	LBS/HR
CO	9.86
NOX (AS NO <sub>2</sub> )	2.35
PM <sub>10</sub>	0.23
ROG (AS CH <sub>4</sub> )	1.01
SOX (AS SO <sub>2</sub> )	0.20

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

19. INLAND EMPIRE UTILITIES AGENCY (IEUA) SHALL CALCULATE THE MAXIMUM INDIVIDUAL CANCER RISK (MICR), ACUTE HAZARD INDEX (HIA) AND CHRONIC HAZARD INDEX (HIC), BASED ON THE SOURCE TESTS RESULTS, USING AQMD PUBLISHED "RISK ASSESSMENT PROCEDURES FOR RULES 1401 AND 212" (VERSION 7.0), TO DETERMINE THE COMPLIANCE WITH RULE 1401. RESULTS SHALL BE SUBMITTED TO AQMD. [RULE 1401]
20. 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:

21. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- CO: 2000 PPMV, @ 15% O<sub>2</sub>, DRY, 15 MIN. AVG., @ 25% EFF., RULE 1110.2
  - ROG: 250 PPMV, @ 15% O<sub>2</sub>, DRY, 15 MIN. AVG., @ 25% EFF., RULE 1110.2
  - NO<sub>x</sub>: 36 PPMV, @ 15% O<sub>2</sub>, DRY, 15 MIN. AVG., @ 25% EFF., RULE 1110.2
  - CO: 2.1 G/BHP-HR, MAJOR SOURCE - LAER
  - ROG: 0.216 G/BHP-HR, MAJOR SOURCE - LAER
  - NO<sub>x</sub>: 0.50 G/BHP-HR, <0.53 G/BHP-HR - LAER
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMIT TO CONSTRUCT

A/N 449694  
Granted as of 08/28/2006

#### Equipment Description:

##### COGENERATION SYSTEM CONSISTING OF:

1. DIGESTER GAS/MANURE BIOGAS FUEL PURIFICATION AND PRETREATMENT SYSTEM (TO REMOVE SILOXANE, HALIDES, MOISTURE, IMPURITIES, AND HYDROGEN SULFIDE).
2. BLENDED FUEL GAS STORAGE TANK (DIGESTER GAS, BIOGAS, AND NATURAL GAS/AIR).
3. INTERNAL COMBUSTION ENGINE, NO. 2, CATERPILLAR, MODEL NO. G3608, FOUR CYCLE, 8 CYLINDERS, LEAN BURN, TURBOCHARGED, AFTERCOOLED, DIGESTER GAS FIRED WITH NATURAL GAS AUGMENTATION, 2131 BHP, WITH ASSOCIATED HEAT RECOVERY SILENCER UNIT AND DRIVING A 1.5 MW ELECTRICAL GENERATOR.
4. HEAT EXCHANGERS, ORGANIC RANKINE CYCLE (ORC) SYSTEM, THERMAL ENERGY STORAGE AND ABSORPTION CHILLING SYSTEM (WITH ORC BY-PASS AND COMMON TO ENGINE NO. 1 AND 2).
5. EXHAUST SILENCER, 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. 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]

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

5. THIS EQUIPMENT SHALL BE FIRED ONLY WITH DIGESTER GAS, MANURE BIOGAS OR MANURE BIOGAS/NATURAL GAS/AIR BLEND FUEL. THE FUEL BLEND, IF USED, SHALL HAVE ABOUT 60% VOLUME BIOGAS AND 40% VOLUME NATURAL GAS/AIR. THE HEATING VALUE OF THE FUEL BLEND SHALL BE EQUIVALENT TO DIGESTER GAS OR BIOGAS.  
[RULE 204]
6. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE FUEL GAS, OR FUEL BLEND, SUPPLY LINE TO THE ENGINE TO MEASURE AND RECORD THE QUANTITY OF FUEL GAS (IN SCFM) BEING BURNED.  
[RULE 204]
7. 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]
8. 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), 1303(b)(2)-Modeling & Offset]
9. 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]
10. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF THE DAY.  
[RULE 204]
11. 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]
12. 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 (EXAMPLE- BIOFILTER), 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]
13. 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 TO THE SCAQMD MANAGER OF TOXICS 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, RULE 1401]

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

14. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH THE SCAQMD RULE 431.1 AND RULE 1110.2.  
[RULE 1110.2]
15. 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]
16. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEASURE THE ENGINE EXHAUST CONCENTRATION FOR NO<sub>x</sub> AND O<sub>2</sub>, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO<sub>x</sub> CONCENTRATION TO A CORRECTED NO<sub>x</sub> CONCENTRATION AT 15% O<sub>2</sub> AND CONTINUOUSLY RECORD THE STACK NO<sub>x</sub> CONCENTRATION AT 15% O<sub>2</sub>. 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]
17. WITHIN 60 DAYS AFTER ACHIEVING THE MAXIMUM FUEL GAS FLOW RATE, AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NOT LATER THAN 180 DAYS AFTER INITIAL START-UP, AND AT LEAST ONCE EVERY THREE (3) YEARS THEREAFTER, 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. 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 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)
  - B. CARBON MONOXIDE (EXHAUST ONLY)
  - C. OXIDES OF NITROGEN (EXHAUST ONLY)
  - D. CARBON DIOXIDE
  - E. TOTAL PARTICULATES (EXHAUST ONLY)
  - F. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
  - G. ALDEHYDES (EXHAUST ONLY)
  - H. TOXIC AIR CONTAMINANTS INCLUDING, BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1,1-DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
  - I. OXYGEN
  - J. NITROGEN
  - K. MOISTURE CONTENT

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

- 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% O<sub>2</sub> (CO, NO<sub>x</sub>, 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), 1303(b)(2)-Modeling & Offset]

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

CONTAMINANT	LBS/HR
CO	9.86
NOX (AS NO <sub>2</sub> )	2.35
PM <sub>10</sub>	0.23
ROG (AS CH <sub>4</sub> )	1.01
SOX (AS SO <sub>2</sub> )	0.20

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

19. INLAND EMPIRE UTILITIES AGENCY (IEUA) SHALL CALCULATE THE MAXIMUM INDIVIDUAL CANCER RISK (MICR), ACUTE HAZARD INDEX (HIA) AND CHRONIC HAZARD INDEX (HIC), BASED ON THE SOURCE TESTS RESULTS, USING AQMD PUBLISHED "RISK ASSESSMENT PROCEDURES FOR RULES 1401 AND 212" (VERSION 7.0), TO DETERMINE THE COMPLIANCE WITH RULE 1401. RESULTS SHALL BE SUBMITTED TO AQMD.  
[RULE 1401]

20. 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:

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

CO: 2000 PPMV, @ 15% O<sub>2</sub>, DRY, 15 MIN. AVG., @ 25% EFF., RULE 1110.2  
ROG: 250 PPMV, @ 15% O<sub>2</sub>, DRY, 15 MIN. AVG., @ 25% EFF., RULE 1110.2  
NO<sub>x</sub>: 36 PPMV, @ 15% O<sub>2</sub>, DRY, 15 MIN. AVG., @ 25% EFF., RULE 1110.2  
CO: 2.1 G/BHP-HR, MAJOR SOURCE - LAER  
ROG: 0.216 G/BHP-HR, MAJOR SOURCE - LAER  
NO<sub>x</sub>: 0.50 G/BHP-HR, <0.53 G/BHP-HR - LAER  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5

### PERMIT TO CONSTRUCT

A/N 451067  
Granted as of 08/28/2006

#### Equipment Description:

MODIFICATIONS (PHASE 1B) AND EXPANSION (PHASE II) OF THE EXISTING DAIRY MANURE PROCESSING OPERATIONS (F72331) CONSISTING OF:

1. MANURE RECEIVING AND DEWATERING BUILDING, INCLUDING TRUCK SCALES, SCREENING, MANURE STORAGE AND SLUDGE-CAKE STORAGE, VENTED TO AN AIR POLLUTION CONTROL SYSTEM.
2. ONE (1) LOAD TANK, ONE (1) FEED TANK, WITH SLUDGE MIXERS AND ASSOCIATED PUMPS.
3. ONE SHELL AND TUBE HEAT EXCHANGER (HE-2) FOR EACH MIX TANK, WITH 300 LINEAL FEET OF 2" BLACK PIPING AND HOT WATER CIRCULATION PUMP.
4. SHELL AND TUBE HEAT EXCHANGER (HE-1), 50 GPM, OR EQUIVALENT.
5. PLUG-FLOW ANAEROBIC DIGESTER, HEATED, 225 TONS OF WET MANURE PER DAY PROCESSING CAPACITY, CONCRETE, 195' L. X 60' W. X 14' D., BELOW GROUND LEVEL, WITH A GAS-TIGHT CONCRETE COVER.
6. DIGESTER GAS (BIOGAS) HANDLING AND TREATMENT SYSTEM CONSISTING OF:  
  
HYDROGEN SULFIDE (H<sub>2</sub>S) REMOVAL AND GAS PURIFICATION SYSTEM WITH ASSOCIATED PUMPS AND PIPING SYSTEM, WATER TRAPS, IRON SPONGE SULFUR REMOVAL UNIT, A CONDENSATE KNOCK-OUT POT/DEMISTER, COMPRESSOR, AFTER COOLER, GAS/LIQUID SEPARATOR, AND GAS DRYER (DELIQUESCENT OR REFRIGERATION TYPE) SYSTEM.
7. STORAGE TANK, DIGESTED SOLID EFFLUENT, 53,957 GALLONS.
8. DIGESTER SOLIDS DEWATERING SYSTEM CONSISTING OF:  
  
TWO (2) MANURE PUMPS, EACH 7.5 HP.  
ONE SCREW PRESS, 40 H.P., WITH PERFORATED SCREEN.  
CENTRIFUGE, ANDRITZ, MODEL D5LL, 30 HP., OR EQUIVALENT.  
PACKAGED POLYMER SYSTEM CONTROL SYSTEM TO MAINTAIN WATER FLOW RATE AND SELECTED DILUTE POLYMER CONCENTRATION IN FEED SOLUTION.  
ONE SCREW CONVEYOR FOR DISCHARGE AND A LOADING CONVEYOR.
9. STORAGE TANK, FILTRATE, 100,000 GALLON CAPACITY, 42,126 GALLONS PER DAY (BRINE) DISCHARGE RATE TO SANTA ANA RIVER INTERCEPTOR (SARI).
10. SLUDGE CAKE (BIOSOLIDS) FROM DEWATERING EQUIPMENT TO COMPOSTING OR OTHER FACILITY.

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

11. RECEIVING/DEWATERING BUILDING WITH EXHAUST VENTED TO AN AIR POLLUTION CONTROL SYSTEM, BIOFILTER (A/N 388295).

**BY REMOVAL OF ITEMS 3 & 4:**

**ALTERATION OF ITEMS 1, 5, 8, & 9 TO:**

1. MANURE RECEIVING AND DEWATERING BUILDING, INCLUDING SCREENING, MANURE STORAGE AND SLUDGE-CAKE STORAGE, VENTED TO AN AIR POLLUTION CONTROL SYSTEM.
5. MIX DIGESTER TANK , INCREASE TO 315 TONS PER DAY WET MANURE PROCESSING CAPACITY, CONCRETE, 195' L. X 60' W. X 14' D., BELOW GROUND LEVEL, WITH A GAS-TIGHT CONCRETE COVER, WITH NEW ASSOCIATED MIXERS, CIRCULATION AND EFFLUENT PUMPS, FOAM SUPPRESSION SYSTEM, AND FIVE (5) SHELL AND TUBE HEAT EXCHANGERS.
8. REPLACEMENT OF ONE SCREW PRESS AND ONE CENTRIFUGE WITH TWO (2) ROTARY PRESSES AND TWO (2) FLOCCULATORS, WITH SUMP PUMP.
9. STORAGE TANK, FILTRATE, 160,000 GALLON CAPACITY, 42,126 GALLONS PER DAY (BRINE) DISCHARGE RATE TO SANTA ANA RIVER INTERCEPTOR (SARI).

**AND ADDITION OF PHASE II EXPANSION (300 TPD DAIRY MANURE, 90 TPD FOOD WASTE SUBSTRATE, PRODUCING 686,900 CFD DIGESTER GAS) CONSISTING OF:**

12. THREE (3) SHELL AND TUBE HEAT EXCHANGERS.
13. TWO (2) DIGESTERS, ANAEROBIC, CONICAL ROOF, EACH 62' DIA. X APPROXIMATELY 55' H., WITH ASSOCIATED AGITATORS, AIR BLOWERS, EFFLUENT LINES, AND FOAM SUPPRESSION SYSTEM.
14. FOOD WASTE STORAGE WITH ASSOCIATED FEED PUMPS.
15. DIGESTER GAS HOLDER, SECOND STAGE IRON SPONGE DESULFURIZATION SYSTEM, AND GAS BLOWER SUPPLYING DIGESTER GAS FOR POWER GENERATION, BOILERS (A/NS 449064 & 449065), STAND-BY FLARE (A/N 448345), MICROTURBINES, OR OTHER COMBUSTION EQUIPMENT, TWO (2) COMPRESSORS, AND TWO (2) GAS HOLDER TANKS.

**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]

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

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. PRIOR TO OPERATION (PHASE II), THE IEUA SHALL SUBMIT DETAILED DESIGN OF FOAM SUPPRESSANT SYSTEM TO DISTRICT FOR APPROVAL. OPERATION OF THE EQUIPMENT AS MODIFIED SHALL NOT COMMENCE UNTIL AFTER THE SYSTEM IS APPROVED IN WRITING BY THE DISTRICT.  
[RULE 204]
6. PRIOR TO OPERATION (PHASE II), THE IEUA SHALL SUBMIT DETAILED DESIGN OF FOAM REMOVAL SYSTEM TO DISTRICT FOR APPROVAL. OPERATION OF THE EQUIPMENT AS MODIFIED SHALL NOT COMMENCE UNTIL AFTER THE SYSTEM IS APPROVED IN WRITING BY THE DISTRICT.  
[RULE 204]
7. NO LATER THAN NOVEMBER 24, 2006, THE IEUA SHALL SUBMIT A COMPLETE RESEARCH PERMIT APPLICATION FOR ADDITIONAL MEASURES DESIGNED TO REDUCE HYDROGEN SULFIDE CONCENTRATION IN DIGESTER GAS AND PRIMARY RELEASE POINTS. THE RESEARCH OPERATION SHALL BE COMPLETED, IN ACCORDANCE WITH THE PERMIT ISSUED BY THE DISTRICT, WITHIN SIX MONTHS OF PHASE II OPERATION START-UP, UNLESS AN EXTENSION IS APPROVED IN WRITING BY THE DISTRICT.  
[RULE 204, RULE 402, RULE 1401]
8. UPON COMPLETION OF THE RESEARCH OPERATION FOR PHASE II, IEUA SHALL REDUCE HYDROGEN SULFIDE CONCENTRATION IN THE RAW DIGESTER GAS (BIOGAS) TO 1400 PPM OR LESS AS REQUIRED BY THE DISTRICT BASED ON THE RESULT OF THE RESEARCH OPERATION.  
[RULE 204, RULE 402, RULE 1401]
9. THE MANURE AND FOOD WASTE TO BE PROCESSED AT THE MANURE PROCESSING FACILITY SHALL BE TRANSPORTED IN ENCLOSED VACUUM 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 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]
11. THE MANURE AND FOOD WASTE RECEIVING, PROCESSING, AND SLUDGE DEWATERING BUILDING WHEN IN OPERATION SHALL BE VENTED ONLY TO AN AIR POLLUTION CONTROL SYSTEM (BIOFILTER) WHICH IS IN FULL OPERATION AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.  
[RULE 1303(a)(1) – BACT]

## **FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

12. SCREENING EQUIPMENT SHALL BE VENTED DIRECTLY TO THE AIR POLLUTION CONTROL SYSTEM WHICH IS 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 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. MANURE AND FOOD WASTE 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 DIRECTLY TO THE AIR POLLUTION CONTROL SYSTEM WHICH IS IN FULL OPERATION AND HAS A VALID PERMIT TO CONSTRUCT/OPERATE ISSUED BY THE SCAQMD.  
[RULE 204, RULE 402]
15. THE TOTAL GALLONS OF INFLUENT MANURE AND FOOD WASTE SLURRY PROCESSED BY THIS FACILITY SHALL BE MEASURED (BY FLOW METERS) AND RECORDED ON A DAILY BASIS. THE TOTAL SOLIDS WEIGHT OF MANURE AND FOOD WASTE DELIVERED TO THE FACILITY SHALL BE WEIGHED, ANALYZED, AND RECORDED ON A DAILY BASIS.  
[RULE 204]
16. THE TOTAL INFLUENT MANURE AND FOOD WASTE SLURRY FLOW PROCESSED SHALL NOT EXCEED 330,700 GALLONS PER DAY. THE INFLUENT SLURRY SHALL BE CHARGED INTO EACH DIGESTER IN ANY ONE DAY. THE TOTAL SOLIDS WEIGHT OF MANURE AND FOOD WASTE DELIVERED TO THE FACILITY SHALL NOT EXCEED 705 WET TONS PER DAY.  
[RULE 204]
17. 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 TOTAL REDUCED SULFUR AS H<sub>2</sub>S (PPMV). AFTER ONE YEAR OF OPERATION, IEUA MAY REQUEST IN WRITING FOR LESS FREQUENT SAMPLING AND ANALYSIS OF THE DIGESTER GAS.  
[RULE 204, RULE 431.1]
18. 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]
19. ALL OF THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE COMBUSTED IN THE FACILITY FLARE(S), ENGINE(S), MICROTURBINE(S), BOILER(S), OR OTHER COMBUSTION EQUIPMENT WHICH HAVE EITHER VALID PERMITS TO CONSTRUCT OR OPERATE OR EQUIPMENT HAVE BEEN DETERMINED TO BE RULE 219 EXEMPT.  
[RULE 204, RULE 402, RULE 1303(a)(1)-BACT, RULE 1401]

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE UTILITIES AGENCY (IEUA), RP-5**

20. 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]
21. 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 AQMD.
  - B. A MONITORING PROTOCOL DESCRIBING THE USE AND SPECIFICATIONS OF A MONITORING SYSTEM SHALL BE SUBMITTED TO AQMD FOR APPROVAL NO LATER THAN 60 DAYS AFTER THE DATE OF ISSUE OF THIS PERMIT TO CONSTRUCT.
  - C. THE MONITORING SYSTEM SHALL CONSIST OF AT LEAST TWO (2) SEPARATE MONITORING STATIONS AT SPECIFIC LOCATIONS PER THE APPROVED MONITORING PROTOCOL.
  - D. EACH MONITORING STATION SHALL CONTINUOUSLY MEASURE AND RECORD THE HYDROGEN SULFIDE CONCENTRATION AND MONITORS SHALL BE EQUIPPED WITH AUDIBLE AND VISIBLE ALARM SYSTEM.
  - E. THE MONITORING SYSTEM SHALL BE IN FULL OPERATION UPON COMMENCING OPERATION OF THE PHASE II EQUIPMENT DESCRIBED IN THIS PERMIT TO CONSTRUCT.
  - F. THE DATA PRODUCED BY THE MONITORING SYSTEM SHALL BE RETAINED FOR AT LEAST FIVE YEARS, AND BE MADE AVAILABLE UPON REQUEST BY AQMD PERSONNEL.
  - G. THE OPERATOR SHALL INVESTIGATE AND REPORT TO AQMD, 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]
22. 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 AQMD PERSONNEL UPON REQUEST.  
[RULE 204, RULE 3004]

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

### **SECTION I: PLANS AND SCHEDULES**

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

NONE

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

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

### **SECTION J: AIR TOXICS [40CFR 63 Subpart ZZZZ 01-18-2008]**

#### **NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES**

The owner/operator of stationary Reciprocating Internal Combustion Engines (RICE) located at major or area sources of hazardous air pollutant (HAP) emissions shall comply with the applicable requirements of 40 CFR 63 Subpart ZZZZ including but not limited to the following:

1. The owner/operator of existing, new or reconstructed stationary RICE shall comply with emission and operating limitation requirements as specified in §63.6600 and §63.6601 at all times except during periods of startups, shutdowns, and malfunctions. The owner/operator shall also comply with requirements of the General Provisions (40 CFR 63 Subpart A) as specified in §63.6665.
2. The owner/operator shall operate and maintain a stationary RICE, including air pollution control and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown and malfunction pursuant to §63.6605.
3. The owner/operator shall demonstrate initial compliance as specified in §63.6610 and §63.6611, and subsequent performance tests and other procedures as specified in §63.6615 and §63.6620.
4. The owner/operator shall comply with monitoring, installation, operation, and maintenance requirements as specified in §63.6625 and §63.660.
5. The owner/operator shall monitor and collect data to demonstrate continuous compliance with emission and operating limitations as specified in §63.6635 and §63.6640.
6. The owner/operator shall sent notifications and reports as specified in §63.6645 and §63.6650. Also, the owner/operator shall keep records as specified in §63.6655.

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

### **SECTION K: TITLE V Administration**

#### **GENERAL PROVISIONS**

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

#### **Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]  
  
(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

#### **Duty to Provide Information**

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

#### **Payment of Fees**

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

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

### **SECTION K: TITLE V Administration**

#### **Reopening for Cause**

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

#### **COMPLIANCE PROVISIONS**

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

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

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

### **SECTION K: TITLE V Administration**

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

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

### **SECTION K: TITLE V Administration**

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

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

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

17. An emergency<sup>1</sup> constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:

(A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:

(1) An emergency occurred and the operator can identify the cause(s) of the emergency;

(2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;

(3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,

(4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

(B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]

18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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

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

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

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

### **REPORTING PROVISIONS**

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

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

### **SECTION K: TITLE V Administration**

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

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

### **SECTION K: TITLE V Administration**

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

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

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

### **PERIODIC MONITORING**

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

### SECTION K: TITLE V Administration

#### *FACILITY RULES*

*This facility is subject to the following rules and regulations*

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

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 1110.2	7-9-2010	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-9-2004	Non federally enforceable
RULE 1122	10-1-2004	Federally enforceable
RULE 1122	5-1-2009	Non federally enforceable
RULE 1127	8-6-2004	Non federally enforceable
RULE 1146.1	5-13-1994	Federally enforceable
RULE 1146.1	9-5-2008	Non federally enforceable
RULE 1146.2	1-7-2005	Non federally enforceable
RULE 1146.2	1-9-1998	Federally enforceable
RULE 1146.2	5-5-2006	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1303(b)(5)(D)(iii)	12-6-2002	Non federally enforceable
RULE 1303(b)(5)(D)(iii)	5-10-1996	Federally enforceable
RULE 1304(c)-Offset Exemption	6-14-1996	Federally enforceable

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

### SECTION K: TITLE V Administration

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 1309.1	12-7-1995	Federally enforceable
RULE 1309.1	5-3-2002	Federally enforceable
RULE 1309.1	8-3-2007	Non federally enforceable
RULE 1401	3-7-2008	Non federally enforceable
RULE 1415	12-3-2010	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 1470	6-1-2007	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 218	5-14-1999	Federally enforceable
RULE 218	8-7-1981	Federally enforceable
RULE 218.1	5-14-1999	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3002	11-5-2010	Non federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	11-5-2010	Non federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	11-5-2010	Non federally enforceable
RULE 3005	3-16-2001	Non federally enforceable
RULE 3006	11-5-2010	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	5-6-2011	Non federally enforceable
RULE 304	5-6-2011	Non federally enforceable
RULE 304	6-3-2005	Non federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.1	6-12-1998	Federally enforceable

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

### SECTION K: TITLE V Administration

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
40CFR 63 Subpart ZZZZ	1-18-2008	Federally enforceable
40CFR 82 Subpart F	5-14-1993	Federally enforceable

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

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

NONE

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

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

### TABLE OF STANDARDS

#### VOC LIMITS

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

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

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

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

### TABLE OF STANDARDS (cont.)

#### VOC LIMITS

#### Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

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

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

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

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

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

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

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

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

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

#### Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

(1) Solvent Requirements

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

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

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

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

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

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-06-2005]

(1) Solvent Requirements

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

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals			

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-06-2005]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)	25 (0.21)	
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	750 (6.3)	100 (0.83)	
(B) Packaging	25 (0.21)		
(iv) Lithographic or Letter Press Printing			
(A) Roller Wash – Step 1	600 (5.0)	500 (4.2)	100 (0.83)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)	500 (4.2)	100 (0.83)

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-06-2005]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(C) Removable Press Components	25 (0.21)		
(v) Screen Printing	750 (6.3)	500 (4.2)	100 (0.83)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)	500 (4.2)	100 (0.83)
(vii) Specialty Flexographic Printing	600 (5.0)	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

\* The specified limits remain in effect unless revised limits are listed in subsequent columns.

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a).

Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

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

**TABLE 404(a)**

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

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

## FACILITY PERMIT TO OPERATE INLAND EMPIRE UTILITIES AGENCY

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

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