

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

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 LA CITY, SANITATION BUREAU (HTP)

PERMITTED EQUIPMENT LIST

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

Application Number	Permit to Operate Number	Equipment Description	Page No.
G02327	P68553	BAGHOUSE, AMBIENT TEMP. > 500 SQ. FT. – ABRASIVE BLASTING	6
G02328	P68554	ABRASIVE BLASTING (CABINET)	8
161032	D93839	SEWAGE TREATMENT (PRIMARY)	9
161034	D93840	SEWAGE TREATMENT (HEADWORKS)	11
161048	D93242	APC SYSTEM, LIQUID SCRUBBER - HEADWORKS	13
161051	D93241	APC SYSTEM, LIQUID SCRUBBER & ADSORBER – INFLUENT CHANNELS	15
207187	D71033	ICE > 500 HP, EM. ELEC. GEN, DIESEL	17
207188	D71031	ICE > 500 HP, EM. ELEC. GEN, DIESEL	19
227143	D39256	FLARE STATION, DIGESTER GAS	21
245834	F38718	SEWAGE SLUDGE STORAGE	24
245835	G15552	APC SYSTEM, LIQUID SCRUBBER – TRUCK LOADING	25
254887	G15644	WASTEWATER TREATMENT (SECONDARY)	27
254889	F38896	APC SYSTEM, LIQUID SCRUBBER	29
264457	F38897	DIGESTER SCREENING FACILITY	31
264553	F38898	FERRIC CHLORIDE REACTION	33
265348	G15556	APC SYSTEM, LIQUID SCRUBBER – HIGH PURITY OXYGEN REACTOR	34
265350	G15557	APC SYSTEM, LIQUID SCRUBBER – HIGH PURITY OXYGEN REACTOR	36
266268	F38915	DIGESTER GAS DESULFURIZATION SYSTEM	38
274876	R-F38908	SEWAGE SLUDGE DIGESTION	38
281651	F38909	SEWAGE SLUDGE DEWATERING	40
281664	G22328	APC SYSTEM, LIQUID SCRUBBER – WASTE ACTIVATED SLUDGE THICKENING FACILITY	42
299230	G15554	APC SYSTEM, LIQUID SCRUBBER – BIOSOLID DEWATERING & DIGESTER SCREENING	44
299232	G15555	BIOSOLIDS DEWATERING FACILITY	46
313290	D97879	ICE, 50-500 HP, EM. ELEC. GEN., DIESEL	48
313291	D97880	ICE, 50-500 HP, EM. ELEC. GEN., DIESEL	49
313293	D97882	ICE, 50-500 HP, EM. ELEC. GEN., DIESEL	50
313615	F6234	ICE, 50-500 HP, EM. ELEC. GEN., DIESEL	51

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

Application Number	Permit to Operate Number	Equipment Description	Page No.
314336	D98949	ICE, 50-500 HP, EM. PUMP, DIESEL	52
314337	D99325	ICE, 50-500 HP, EM. PUMP, DIESEL	53
330359	F9091	ICE, > 500 HP, EM. ELEC. GEN., DIESEL	54
332902	F19609	SPRAY BOOTH	58
334787	F48664	BOILER 20-50 MMBTU/HR, NATURAL GAS	56
351997	F31378	SPRAY BOOTH, PAINT AND SOLVENT	58
362229	G15560	APC SYSTEM, LIQUID SCRUBBER – INTERMEDIATE PUMPING STATION	60
395160	F48949	BOILER >10 MMBTU/HR, DIGES. GAS & NAT. GAS	62
424861	F66769	APC SYSTEM, CARBON	66
424862	F66770	APC SYSTEM, CARBON	69
424863	F66771	APC SYSTEM, CARBON	71
425835	F66848	ICE, 50-500 HP, EM. ELEC. GEN. DIESEL	73
431055	G22329	APC SYSTEM, CAUSTIC SCRUBBERS, CARBON VESSELS – PRIMARY BATTERIES & INFLUENT/EFFLUENT CHANNELS	74
438675	F76326	APC SYSTEM, CARBON	76
454045	F80905	ICE, 50-500 HP, EM. ELEC. GEN. DIESEL	78
476101	N20469	GASOLINE STORAGE AND DISPENSING	80
516867	PROPOSED	DIGESTER GAS DESULFURIZATION SYSTEM	85
522847	PROPOSED	BOILER >10 MMBTU/HR, DIGES. GAS & N. GAS	87
531841	PROPOSED	SPRAY BOOTH	91
542209	G23660	DUST COLLECTOR, CARTRIDGE TYPE – ABRASIVE BLASTING	93

NOTE: PERMITS TO CONSTRUCT (IF ANY) ARE LISTED IN SECTION H OF THIS FACILITY PERMIT. 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 LA CITY, SANITATION BUREAU (HTP)

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 FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT. ON AND AFTER JUNE 1, 2004, DIESEL FUEL SHALL NOT BE PURCHASED FOR USE IN ANY STATIONARY SOURCE APPLICATION IN THE DISTRICT, UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]

3. TOTAL SULFUR CONTENT OF THE DIGESTER GAS COMBUSTED AT THIS FACILITY OR SUPPLIED TO ANOTHER FACILITY SHALL NOT EXCEED 40 PPMV MEASURED AS H₂S.
[RULE 431.1]

4. ACCIDENTAL RELEASE PREVENTION REQUIREMENTS OF SECTION 112(r)(7):

THE OPERATOR SHALL COMPLY WITH THE ACCIDENTAL RELEASE PREVENTION REQUIREMENTS PURSUANT TO 40 CFR Part 68 AND SHALL SUBMIT TO THE EXECUTIVE OFFICER, AS PART OF ANNUAL COMPLIANCE CERTIFICATION, A STATEMENT THAT CERTIFIES COMPLIANCE WITH ALL THE REQUIREMENTS OF 40 CFR Part 68, INCLUDING THE REGISTRATION AND SUBMISSION OF A RISK MANAGEMENT PLAN (RMP). THE OPERATOR SHALL SUBMIT ANY ADDITIONAL RELEVANT INFORMATION REQUESTED BY THE EXECUTIVE OFFICER OR DESIGNATED AGENCY.
[40 CFR68-ACCIDENTAL RELEASE PREVENTION]

5. SULFUR CONTENT OF FUEL OIL USED IN STATIONARY EMERGENCY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES SHALL NOT EXCEED 15 PPMV.
[RULE 1470]

6. THE OPERATOR SHALL MEASURE THE SULFUR CONTENT OF THE DIGESTER GAS ACCORDING TO THE FOLLOWING:
 - A. FOR READING UP TO 36 PPM AS H₂S, DIALY ANALYSIS OF THE DIGESTER GAS FOR H₂S, USING COLORIMETRIC TUBES, AND WEEKLY ANALYSIS OF THE DIGESTER GAS BY AQMD METHOD 307 – TOTAL SULFUR COMPOUNDS IN FUEL GAS BY GAS CHROMATOGRAPHY AND CHEMILUMINESCENCE DETECTOR.
 - B. FOR READING ABOVE 36 PPM AS H₂S BY AQMD METHOD 307 – TOTAL SULFUR COMPOUNDS IN FUEL GAS BY GAS CHROMATOGRAPHY AND SULFUR CHEMILUMINESCENCE DETECTOR. A MINIMUM OF THREE CONSECUTIVE DAILY SAMPLES ARE REQUIRED TO DEMONSTRATE THE TOTAL SULFUR CONTENT IS BELOW 36 PPM.
[RULE 431.1]

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8. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT ON FILE FOR AT LEAST 5 YEARS AND BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 204]

Periodic Monitoring:

NONE

Emissions And Requirements:

NONE

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

PERMIT TO OPERATE

Permit No. R-F38908
A/N 274876

Equipment Description:

MUNICIPAL WASTEWATER SLUDGE DIGESTION SYSTEM CONSISTING OF:

1. THIRTY SIX (36) PRIMARY ANAEROBIC DIGESTERS, EACH 2,500,000 GALLON CAPACITY, EACH WITH A MECHANICAL MIXER, VENTED TO DIGESTER GAS TREATMENT FACILITY.
2. TWO (2) SECONDARY ANAEROBIC DIGESTERS, 2,500,000 GALLON EACH, VENTED TO A DIGESTER GAS TREATMENT FACILITY.
3. THREE (3) DIGESTED SLUDGE WET WELLS, 11'-6" DIA X 59'-6" H. EACH, VENTED TO A DIGESTER GAS TREATMENT SYSTEM.
4. PRIMARY SLUDGE PUMP STATION WITH EIGHT (8) SLUDGE PUMPS (THREE STANDBY), AND TWO (2) PRIMARY SLUDGE WET WELLS, 47' W. X 22' L. EACH.
5. THICKENED WASTE ACTIVATED SLUDGE (TWAS) PUMP STATION, WITH SIX (6) SLUDGE PUMPS AND ONE WET WELL WITH 15' W. X 30' L.
6. FOUR (4) RESERVOIRS, 52'-6" W. X 18'-6" L. EACH.
7. PUMP HOUSE WITH THREE (3) FRESH WATER PUMPS (ONE STANDBY), THREE INDUSTRIAL WATER PUMPS (ONE STANDBY), AND THREE HORIZONTAL FIRE PUMPS.
8. FERROUS CHLORIDE FACILITY WITH TWO (2) FERROUS CHLORIDE STORAGE TANKS, 8,500 GALLONS EACH, TWO (2) METERING PUMPS (ONE STANDBY), AND ONE CHEMICAL TRANSFER PUMP.

THIS PERMIT TO OPERATE SUPERSEDES PERMIT TO OPERATE F38908 ISSUED ON 4/17/2001.

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 LA CITY, SANITATION BUREAU (HTP)

3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE PRIMARY SLUDGE PUMP STATION AND THICKENED WASTE ACTIVATED SLUDGE (TWAS) PUMP STATION ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE AQMD.
[RULE 402]

4. FLOW METERS SHALL BE INSTALLED AND OPERATED IN ORDER TO MEASURE AND RECORD SLUDGE, FERROUS CHLORIDE, AND DIGESTER GAS FLOW RATES.
[RULE 204]

Periodic Monitoring:

NONE

Emissions And Requirements:

NONE

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

PERMIT TO OPERATE

Permit No. F38909
A/N 281651

Equipment Description:

WASTE ACTIVATED SLUDGE THICKENING FACILITY CONSISTING OF:

1. THREE (3) DISSOLVED AIR FLOTATION (DAF) TANKS, STANDBY ONLY.
2. TWENTY-FOUR CENTRIFUGES (FOUR STANDBY), HIGH SPEED, SOLID BOWL, 300 H.P. MAIN DRIVE, 50 H.P. BACKDRIVE, COUNTERCURRENT DESIGN WITH A HELICAL SCREW CONVEYOR.
3. TWO WASTE ACTIVATED SLUDGE WET WELLS, EACH 160,000 GALLON CAPACITY, 43'-0" L. X 30'-9" W. X 23'-0" D.
4. FOUR THICKENED WASTE ACTIVATED SLUDGE WET WELLS, EACH 48'-0" L. X 5'-0" W. X 19'-0" D.
5. ONE CENTRATE WET WELL, 18'-0" L. X 8'-6" W. X 24'-0" D.
6. TWO SIDESTREAM WET WELLS, EACH 28'-6" L. X 18'-0" W. X 21'-0" D.
7. TWELVE STORAGE TANKS, POLYMER, EACH 21,800 GALLON CAPACITY, VENTED TO ACTIVATED CARBON CANISTERS.
8. THREE STORAGE TANKS, SODIUM HYDROXIDE (NAOH), TWO 2,850 GALLON, AND ONE 21,800 GALLON CAPACITY.
9. THREE STORAGE TANKS, SODIUM HYPOCHLORITE (NAOCL), TWO 7,900 GALLON, AND ONE 21,800 GALLON CAPACITY.

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 LA CITY, SANITATION BUREAU (HTP)

- B) THE SOURCE TESTS SHALL BE PERFORMED USING APPROVED DISTRICT METHODS TO VERIFY COMPLIANCE WITH NOX AND CO EMISSION LIMITS SPECIFIED BY THIS PERMIT.
- C) THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, MINIMUM, AND AVERAGE FIRING RATES.
- D) WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. THE NOTICE SHALL BE ADDRESSED TO:

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 COPLEY DRIVE
DIAMOND BAR, CA 91765
ATTN: REFINERY AND WASTE MANAGEMENT TEAM

- E) TWO COMPLETE COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS OF COMPLETION OF THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, EMISSION RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
 - I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM)
 - II. THE FIRING RATES, IN BTU/HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
 - V. THE FUEL FLOW RATE.
- F) SAMPLING FACILITIES SHALL COMPLY WITH DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1146, RULE 1303(a)(1)]

Periodic Monitoring:

NONE

Emissions And Requirements:

CO: 400 PPMV, RULE 1146
NOX: 30 PPMV, RULE 1146, RULE 1303(a)(1) - BACT
PM: 0.1 GRAIN/SCFM, RULE 409
CO: 2000 PPM, RULE 407
SO2: 500 PPM, RULE 407

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

PERMIT TO OPERATE

Permit No. F31378
A/N 351997

Equipment Description:

SPRAY BOOTH, DEVILBISS, AUTOMOTIVE TYPE, 14'-1" W. X 33'- 4" L. X 10'-0" H., WITH TEN 20" X 40" INLET AIR FILTERS, TWENTY- FOUR 20" X 25" EXHAUST FILTERS, AND ONE 1-HP EXHAUST FAN.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THE FILTER MEDIA.
[RULE 1303(a)(1)]
4. A GAUGE SHALL BE MAINTAINED TO INDICATE, IN INCHES OF WATER, THE PRESSURE DIFFERENTIAL ACROSS THE EXHAUST FILTERS. WHEN IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 0.25 INCH OF WATER.
[RULE 1303(a)(1)]
5. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE USE OF COATINGS, THINNERS, REDUCERS AND CLEAN-UP SOLVENTS IN THIS EQUIPMENT AND ASSOCIATED OPERATIONS SHALL NOT EXCEED 182 POUNDS IN ANY CALENDAR MONTH. ASSOCIATED OPERATIONS INCLUDE, BUT ARE NOT LIMITED TO, SURFACE PREPARATION, EQUIPMENT CLEAN-UP, AND THE APPLICATION OF ANY OTHER MATERIALS TO PARTS THAT ARE SUBSEQUENTLY PROCESSED IN THE PERMITTED EQUIPMENT.
[RULE 1303(b)(2)]
6. THE OPERATOR SHALL COMPLY WITH RULE 109 (RECORDKEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).
[RULE 109]
7. IN ADDITION TO THE RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO VERIFY DAILY USAGE. VOLATILE ORGANIC COMPOUND (VOC) CONTENT AND DAILY AND MONTHLY VOC EMISSIONS FOR EACH COATING AND SOLVENT USED IN THIS EQUIPMENT. SUCH RECORDS SHALL BE RETAINED FOR A PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)][RULE 204]

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8. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED AUGUST 13, 1999 OR EARLIER, EXCEPT COMPOUNDS LISTED UNDER MATERIAL SAFETY DATA SHEETS (MSDS) SUBMITTED WITH THE APPLICATION.
[RULE 1401][RULE 212]
9. MATERIAL SAFETY DATA SHEETS FOR ALL COATINGS AND SOLVENTS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1401][RULE 212]
10. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS FACILITY TO VERIFY CALENDAR MONTHLY VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS IN POUNDS AND THE VOC CONTENT OF EACH MATERIAL AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE SCAQMD.
[RULE 1303(b)(2)][RULE 204]
11. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCIES AND/OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH THE SCAQMD RULES.
[RULE 1303(b)(2)][RULE 204]
12. THE OPERATOR SHALL RETAIN ALL PURCHASE INVOICES FOR ALL VOC-CONTAINING MATERIAL USED OR STORED, AND ALL WASTE MANIFESTS FOR ALL WASTE VOC-CONTAINING MATERIAL REMOVED, FOR FIVE YEARS.
[RULE 109][RULE 1303(b)(2)][RULE 204]

Periodic Monitoring:

13. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER MEDIA ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULES 1107, 1151, 1171, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

PERMIT TO OPERATE

Permit No. G15560
A/N 362229

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. TWO BLOWERS, EACH RATED AT MAXIMUM OF 20,000 CFM, VENTING THE FOREBAY AND AFTERBAY OF THE INTERMEDIATE PUMPING STATION (IPS).
2. TWO 3-STAGE SCRUBBERS, PACKED BED TYPE, IN PARALLEL, EACH 25'-0" L. X 9'-0" W. X 12'-0" H., EACH WITH A MIST ELIMINATOR, AND ASSOCIATED PUMPS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE CONCENTRATION OF HYDROGEN SULFIDE (H₂S) AT THE EXHAUST SHALL NOT EXCEED 1.0 PPMV, DAILY AVERAGE.
[RULE 402]
4. THE CONCENTRATION OF HYDROGEN SULFIDE AT THE EXHAUST SHALL BE MEASURED AND RECORDED DAILY.
[RULE 204]
5. A pH INDICATOR AND CONTROLLER SHALL BE INSTALLED AND MAINTAINED FOR EACH STAGE OF THE SCRUBBERS. THE pH OF THE SCRUBBING SOLUTION SHALL BE MAINTAINED AT 8.0 (DAILY AVERAGE) OR HIGHER WHEN USING SODIUM HYDROXIDE AND SHALL BE MONITORED AND RECORDED DAILY.
[RULE 204]
6. DIFFERENTIAL PRESSURE GAUGES INDICATING THE PRESSURE DROP ACROSS PACKING, AND SIGHT GLASSES FOR VISUAL MONITORING OF PACKING SHALL BE INSTALLED AND MAINTAINED FOR EACH STAGE OF THE SCRUBBERS. THE PACKING SHALL BE VISUALLY MONITORED FOR ADEQUATE WETTING AND POSSIBLE CLOGGING ON DAILY BASIS. THE DIFFERENTIAL PRESSURE DROP ACROSS THE PACKING SHALL BE MONITORED AND RECORDED DAILY. THE DIFFERENTIAL PRESSURE DROP ACROSS THE PACKING SHALL NOT EXCEED 6 INCHES OF WATER COLUMN, DAILY AVERAGE.
[RULE 204]

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

PERMIT TO CONSTRUCT/OPERATE

Permit No.
A/N 516867

Equipment Description:

MODIFICATION OF DIGESTER GAS DESULFURIZATION SYSTEM, P/O F38915, CONSISTING OF:

1. SEVEN (7) COMPRESSORS, 4850 H.P. TOTAL.
2. TWO GAS HOLDERS, LOW PRESSURE, 112,500 CUBIC FEET CAPACITY AND 150,000 CUBIC FEET CAPACITY.
3. KNOCKOUT DRUM, RAW DIGESTER GAS, ABSORBER INLET, 4' ID X 9' H.
4. TWO KNOCKOUT DRUMS, ABSORBER OUTLET, 4' ID X 9' H. WITH TWO COALESCING FILTERS (ONE STANDBY).
5. TWO SPILLBACK BLOWERS (ONE STANDBY).
6. CHEMICAL FEED SYSTEM CONSISTING OF THREE POLYETHYLENE CHEMICAL ADDITIVE DRUMS, ONE 3000-GALLON CHEMICAL ADDITION TANK, FOUR PNEUMATIC CHEMICAL TRANSFER PUMPS, AND ONE SUMP PUMP.
7. TWO VENTURI CONTRACTORS.
8. SCRUBBING LIQUOR HEATER, 5,120,000 BTU/HR MAXIMUM.
9. TWO ABSORBERS.
10. TWO OXIDIZER TANKS WITH ASSOCIATED REGENERATION AIR BLOWERS.
11. TWO RECIRCULATION TANKS WITH ASSOCIATED PUMPS.
12. TWO PRECIPITATE HOLDING TANKS, 7' ID X 26' H., AGITATED, WITH ASSOCIATED PUMPS.
13. CENTRIFUGE, 40 H.P.
14. ONE RESLURRYING TANK, 12' ID X 16' H., WITH ONE RESLURRYING MIXER AND ASSOCIATED SLURRY PUMPS.
15. CHEMICAL MAKEUP PUMP AND CHEMICAL MAKEUP MIXER.

Conditions:

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE DISCHARGE AIR STREAM FROM THE OXIDIZERS SHALL BE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE AQMD.
[RULE 402]
4. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT ON FILE FOR AT LEAST 5 YEARS AND BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 204]

Periodic Monitoring:

NONE

Emissions And Requirements:

NONE

FACILITY PERMIT TO OPERATE LA CITY, SANITATION BUREAU (HTP)

PERMIT TO OPERATE

Permit No.
A/N 522847

Equipment Description:

BOILER, STANDBY, HURST, MODEL NO. DS1750-250-XID-2, FIRE-TUBE TYPE, RATE AT 28.8 MMBTU/HR, WITH AN ALZETA LOW NOX BURNER, MODEL CSB288R, DIGESTER GAS AND NATURAL GAS FIRED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL NOT BE OPERATED SIMULTANEOUSLY WITH THE BOILER PERMITTED UNDER SCAQMD APPLICATION NO. 522846.
[RULE 1303(b)(2), RULE 1401]
4. THE TOTAL HEAT INPUT TO THIS BOILER SHALL NOT EXCEED 28.8 MMBTU PER HOUR.
[RULE 1303(b)(1), RULE 1303(b)(2)]
5. THIS BOILER SHALL BE FIRED ON DIGESTER GAS AND/OR NATURAL GAS ONLY.
[RULE 1303(a)(1)]

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6. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TEST(S) 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 THE TEST.
 - B) A SOURCE TEST PROTOCOL SHALL BE SUBMITTED (IN DUPLICATE) TO ABDI MAJIDIFAR, WASTE MANAGEMENT/TERMINALS PERMITTING OF AQMD WITHIN 30 DAYS FROM RECEIPT OF THIS PERMIT AND SHALL BE APPROVED BY AQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TESTS, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
 - C) SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER NORMAL OPERATION OF THE EQUIPMENT HAS BEEN ESTABLISHED, BUT NO LATER THAN 180 DAYS FROM RECEIPT OF THIS PERMIT.
 - D) EXCEPT AS PROVIDED IN (E), THE SOURCE TESTS SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT MAXIMUM, MINIMUM, AND AVERAGE LOAD WHEN FIRING 1- 100% NATURAL GAS, AND 2- 100% DIGESTER GAS. THE SAMPLING TIME AT EACH LOAD SHALL BE FOR A MINIMUM OF 15 CONSECUTIVE MINUTES.
 - E) TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO ABDI MAJIDIFAR WITHIN 60 DAYS OF THE TESTS. THE REPORT SHALL INCLUDE THE FOLLOWING:
 - 1. HEAT INPUT.
 - 2. TYPE OF FUEL.
 - 3. EXHAUST FLOW RATE.
 - 4. EXHAUST MOISTURE, OXYGEN, AND TEMPERATURE,
 - 5. OXIDES OF NITROGEN.
 - 6. CARBON MONOXIDE.
 - 7. PARTICULATE MATTER (PM10).
 - 8. TOTAL NON-METHANE HYDROCARBONS.
 - 9. METHANE

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IN ADDITION TO THE ABOVE, THE BOILER SHALL BE TESTED FOR THE COMPOUNDS LISTED BELOW WHEN FIRING DIGESTER GAS AT AVERAGE LOAD:

1. ACETALDEHYDE
2. ACROLEIN
3. BENZENE
4. CARBON TETRACHLORIDE
5. CHLOROBENZENE
6. CHLOROFORM
7. 1,4(p)-DICHLOROBENZENE
8. 1,2-DICHLOROETHANE
9. FORMALDEHYDE
10. METHYLENE CHLORIDE
11. STYRENE
12. TETRACHLOROETHYLENE
13. TOLUENE
14. TRICHLOROETHYLENE
15. 1,1,1-TRICHLOROETHANE
16. VINYL CHLORIDE
17. XYLENES

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN PARTS PER MILLION VOLUME (PPMV) AND POUNDS PER HOUR, ON DRY BASIS.
[RULE 1303(a)(1)][RULE 1401]

7. DAILY RECORDS OF THE FUEL GAS CONSUMPTION, FUEL TYPE, EXHAUST NOX CONCENTRATIONS AND CORRECTED NOX CONCENTRATIONS SHALL BE KEPT AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 218][RULE 1146]
8. SAMPLING PORTS SHALL BE INSTALLED AND MAINTAINED IN THE EXHAUST STACK OF THE BOILER. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE PROVIDED.
[RULE 217]

Periodic Monitoring:

NONE

Emissions And Requirements:

CO: 400 PPMV, RULE 1146
CO: 100 PPMV, RULE 1303(a)(1)-BACT
CO: 2000 PPM, RULE 407
NOX: 30 PPMV, RULE 1146, UNTIL 1/1/2015 (DIGESTER GAS)
NOX: 15 PPMV, RULE 1146, ON AND AFTER 1/1/2015 (DIGESTER GAS)
NOX: 30 PPMV, RULE 1303(a)(1)-BACT (DIGESTER GAS)
NOX: 9 PPMV, RULE 1303(a)(1)-BACT (NATURAL GAS)
PM: 0.1 GRAIN/SCFM, RULE 409

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PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMIT
SO2: 500 PPM, RULE 407

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PERMIT TO CONSTRUCT AND OPERATE

**Permit No.
A/N 531841**

Equipment Description:

MODIFICATION OF SPRAY BOOTH, P/O F19609, SPRAY BOOTH, FLOOR TYPE, BINKS, MODEL NO. 14-10-T, 14'-0" W. X 20'-0" L. X 10'-2" H., WITH TWENTY FOUR 20" W. X 25" L. X 0'-5" THICK EXHAUST FILTERS, AND ONE 15-HP EXHAUST FAN.

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 SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH ITS FILTER MEDIA AT LEAST 2 INCHES THICK.
[RULE 1303(a)(1)-BACT]
4. THE TOTAL VOLUME OF COATINGS AND SOLVENTS USED IN THIS SPRAY BOOTH SHALL NOT EXCEED 6 GALLONS IN ANY ONE DAY.
[RULE 1303(b)(2)]
5. A GAUGE SHALL BE INSTALLED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE EXHAUST FILTERS. WHEN IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCH OF WATER COLUMN.
[RULE 1303(a)(1)-BACT]
6. THE OWNER OR THE OPERATOR OF THIS EQUIPMENT SHALL KEEP ADEQUATE RECORDS TO VERIFY DAILY USAGE OF COATING AND SOLVENTS. THE RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO THE SCAQMD UPON REQUEST.
[RULE 109][RULE 204]

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Periodic Monitoring:

7. THE OPERATOR SHALL PERFORM A WEEKLY 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 AQMD, FOR THE FOLLOWING PARAMETR(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)]

8. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULES 1104, 1106, 1107, 1113, 1151, 1171, SEE APPENDIX B FOR EMISSION LIMITS