

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

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

This section consists of a table listing all equipment with Permits to Construct and copies of 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 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  
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**PERMITTED EQUIPMENT LIST  
(Section H)**

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

<b>Application number</b>	<b>Permit to Construct</b>	<b>Equipment description</b>	<b>Page No.</b>
522846	PC	BOILER >10 MMBTU/HR, DIGES. GAS & N. GAS	4

**NOTE:** EQUIPMENT LISTED ABOVE HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER. THEY ARE ISSUED PERMITS TO CONSTRUCT (PC). THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW.

## 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 H<sub>2</sub>S.  
[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 H<sub>2</sub>S, DAILY ANALYSIS OF THE DIGESTER GAS FOR H<sub>2</sub>S, 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 H<sub>2</sub>S 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]

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

### PERMIT TO CONSTRUCT

A/N 522846  
Granted as of

#### Equipment Description:

BOILER, BABCOCK AND WILCOX, MODEL NO. FM-10-57, WATER-TUBE TYPE, RATE AT 62 MMBTU/HR MAXIMUM, WITH A LOW NOX BURNER, ALZETA OR EQUIVALENT, MODEL CSB30-3SO-30/30/EC, OR EQUIVALENT, 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. THE TOTAL HEAT INPUT TO THIS BOILER SHALL NOT EXCEED 59.5 MMBTU PER HOUR.  
[RULE 1303(b)(1), 1303(b)(2)]
4. THIS BOILER SHALL BE FIRED ON DIGESTER GAS AND/OR NATURAL GAS ONLY. EXCEPT FOR PILOT FUEL, THIS BOILER SHALL ONLY USE NATURAL GAS IF THERE IS INSUFFICIENT SUPPLY OF DIGESTER GAS.  
[RULE 1303(a)(1)]
5. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE AND RECORD THE EXHAUST CONCENTRATIONS OF NOX AND O2 ON DRY BASIS. IN ADDITION THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATIONS TO A CORRECTED NOX CONCENTRATIONS AT 3% O2, ON A DRY BASIS, AND CONTINUOUSLY RECORD STACK NOX, O2, AND CORRECTED NOX CONCENTRATIONS. THE CONCENTRATIONS SHALL BE MEASURED AT LEAST AT 3 MINUTES INTERVAL AND AVERAGED OVER A PERIOD OF 15 MINUTES. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM (CEMS) SHALL BE APPROVED BY THE AQMD IN WRITING.  
[RULE 1146][RULE 218]

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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 AFTER 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 TESTS, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
  - C) 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.
  - 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.

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### 9. METHANE

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][RULE 1146][RULE 409]

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  
NOX: 15 PPMV, RULE 1146, ON AND AFTER 1/1/2015  
NOX: 30 PPMV, RULE 1303(a)(1)-BACT (DIGESTER GAS)  
NOX: 9 PPMV, RULE 1303(a)(1)-BACT (NATURAL GAS)

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PM: 0.1 GRAIN/SCFM, RULE 409  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMIT  
SO2: 500 PPM, RULE 407