



FACILITY PERMIT TO OPERATE

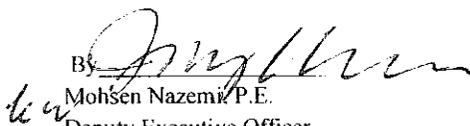
**EASTERN MUNICIPAL WATER DIST
1301 CASE RD
PERRIS, CA 92570**

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 EASTERN MUNICIPAL WATER DIST

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**FACILITY PERMIT TO OPERATE
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**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, copies of all individual 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
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PERMITTED EQUIPMENT LIST

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

Application number	Permit number	Equipment description	Page #
180365	D40834	ICE (50-500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	4
337778	F41973	SERV STAT STORAGE & DISPENSING GASOLINE	5
431064	R-F69264	SEWAGE TREATMENT (>5 MG/D) AEROBIC	8
466470	G3951	STORAGE TANK, LPG	11
466471	G3952	STORAGE TANK, LPG	13
499897	G9937	DIGESTER GAS TREATMENT SYSTEM & FUEL CELL POWER PLANT	15
503372	G9939	ICE (>500 HP) EMERGENCY ELEC. GENERATOR- NG & LPG	19
510552	G13149	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	21
510553	G13150	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	24
510554	G13151	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	27
529142	G22436	ICE (>500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	30

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



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FACILITY WIDE CONDITION(S)

1. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT. AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]
2. THE FACILITY SHALL NOT EMIT MORE THAN 5 LBS/DAY OF TOTAL SULFUR COMPOUNDS, CALCULATED AS H₂S, FROM BURNING OF GASEOUS FUELS OTHER THAN NATURAL GAS.
[RULE 431.1]
3. THE OWNER/OPERATOR SHALL NOT DISCHARGE FROM ANY SINGLE SOURCE SULFUR COMPOUNDS IN ANY STATE OR COMBINATION IN EXCESS OF 0.05 PERCENT BY VOLUME AS SO₂.
[RULE 53(a)(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]



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PERMIT TO OPERATE

**Permit No. D40834
A/N 180365**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, NATURAL GAS-FUELED, MODEL NO. G342, SERIAL NO. 71B3089, 6 CYLINDERS, 4 CYCLES, TURBOCHARGED AFTERCOOLED, 295 BHP, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

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 IGNITION TIMING OF THE ENGINE SHALL BE INSPECTED, ADJUSTED, AND CERTIFIED AT A MINIMUM OF ONCE EVERY THREE YEARS OF OPERATION.
[RULE 204]
4. THIS ENGINE SHALL ONLY OPERATE 200 HOURS OR LESS IN ANY ONE YEAR.
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
6. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

Emission and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1470



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**Permit No. F41973
A/N 337778**

Equipment Description:

FUEL STORAGE AND DISPENSING FACILITY CONSISTING OF:

1. 1 - DUAL COMPARTMENT ABOVEGROUND GASOLINE/DIESEL STORAGE TANK, CONVAULT TYPE, 11'-3" L. X 8'-0" W. X 5'-6" H., 2000-GALLON CAPACITY, CONCRETE INSULATION, WITH A PRESSURE/VACUUM RELIEF VALVE, AND A COAXIAL SUBMERGED FILL TUBE, CONSISTING OF:
 - A. ONE 1000-GALLON GASOLINE COMPARTMENT TANK, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM.
 - B. ONE 1000-GALLON DIESEL COMPARTMENT TANK, NOT EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM.
2. 1 - GASOLINE NOZZLE WITH A 12'-6" L. HOSE ON A TANK SIDE MOUNTED DISPENSER, WITH PHASE II VRS BALANCE HI HOSE (G-70-52-AM), BALANCE SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT WAS 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. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.
[RULE 461]
4. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461.
[RULE 461]
5. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.
[RULE 461]



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6. PHASE II VAPOR RECOVERY SYSTEMS SHALL BE INSTALLED, OPERATED, AND MAINTAINED SUCH THAT THE MAXIMUM ALLOWABLE PRESSURE DROP THROUGH THE SYSTEM INCLUDING NOZZLE, VAPOR HOSE, SWIVELS, AND UNDERGROUND PIPING DOES NOT EXCEED THE DYNAMIC BACK PRESSURE RATES DESCRIBED BY THE CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER BY WHICH THE SYSTEM WAS CERTIFIED:

NITROGEN FLOWRATES (CFH)	DYNAMIC BACK PRESSURE (INCHES OF WATER)
20	0.15
40	0.16
60	0.35
80	0.62
100	0.95

DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED TO DETERMINE THE PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURES. THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.4. RESULTS SHALL BE SUBMITTED TO THE DISTRICT, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TESTS.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE DYNAMIC BACK PRESSURE TEST.
[RULE 461]

7. A STATIC PRESSURE LEAK DECAY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE STATIC PRESSURE LEAK DECAY TEST.
[RULE 461]



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8. IF THE CARB EXECUTIVE ORDER REQUIRES THE INSTALLATION OF A LIQUID REMOVAL DEVICE, A LIQUID REMOVAL RATE TEST SHALL BE CONDUCTED TO DEMONSTRATE THE REMOVAL OF GASOLINE FROM THE VAPOR PASSAGE OF THE COAXIAL HOSE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.6. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.

THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE LIQUID REMOVAL RATE TEST.

[RULE 461]

9. THE TESTING FREQUENCY FOR THE ABOVE MENTIONED TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT RULE 461 AMENDMENT OR CARB EXECUTIVE ORDER REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

[RULE 461]

10. ALL RECORDS AND TEST RESULTS THAT ARE REQUIRED TO BE MAINTAINED BY RULE 461 SHALL BE KEPT ON SITE AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

[RULE 461]

11. THE MAXIMUM QUANTITY OF GASOLINE DISPENSED FROM THE STORAGE TANKS AT THIS FACILITY SHALL NOT EXCEED 5000 GALLONS IN ANY ONE CALENDAR MONTH NOR 60000 GALLONS IN ANY ONE CALENDAR YEAR.

[RULE 461]

Periodic Monitoring:

12. THE OPERATOR SHALL HAVE A PERSON THAT HAS BEEN TRAINED IN ACCORDANCE WITH RULE (461)(d)(5) CONDUCT AN ANNUAL INSPECTION IN ACCORDANCE WITH RULE 461(d)(1)(B) OF THE GASOLINE TRANSFER AND DISPENSING EQUIPMENT. THE INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT C. THE OPERATOR SHALL KEEP RECORDS OF THE INSPECTION AND THE REPAIRS IN ACCORDANCE WITH RULE 461 AND SECTION K OF THIS PERMIT.

[RULE 3004(a)(4)]



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Permit No. R-F69264
A/N 431064

Equipment Description:

SEWAGE TREATMENT FACILITY, 11 MGD TOTAL CAPACITY, CONSISTING OF:

- I. CONVENTIONAL ACTIVATED SLUDGE PLANT, 3 MGD, AEROBIC DIGESTION CONSISTING OF:
 1. LIFT STATION WITH ASSOCIATED PUMPS AND MOTORS.
 2. HEADWORKS WITH RAW SEWAGE PUMPING AND GRINDING SYSTEM, WET WELL AND ASSOCIATED PUMPS.
 3. GRIT REMOVAL CHAMBER, 14'-0" W. X 15'-0" L. X 13'-0" D., WITH A SCREW AUGER AND ASSOCIATED PUMPS.
 4. TWO PRIMARY CLARIFIERS, EACH 15'-0" W. X 65'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
 5. EQUALIZATION BASIN, 1 MILLION GALLON CAPACITY.
 6. TWO AERATION TANKS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D.
 7. THREE SECONDARY CLARIFICATION TANKS, EACH 16'-0" W. X 84'-0" L. X 10'-0" D., WITH ASSOCIATED PUMPS.
 8. SECONDARY SLUDGE WET WELL, 15'-0" W. X 15'-0" L. X 15'-0" D. WITH ASSOCIATED PUMPS.
 9. CHLORINE CONTACT BASIN, 18'-0" W. X 31'-0" L. X 12'-0" D. WITH ASSOCIATED PUMPS.
 10. EFFLUENT PUMPING STATION WITH ASSOCIATED PUMPS.
 11. AEROBIC DIGESTER, 30'-0" W. X 150'-0 L. X 15'-0" D.
 12. SEPTAGE RECEIVING SYSTEM WITH A 20,000 GALLON HOLDING TANK.
 13. SLUDGE PUMPING STATION AND ASSOCIATED PUMPS.
 14. AQUA BELT AND POLYMER ADDITION STATION.
 15. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
 16. TWELVE SLUDGE DRYING BEDS, EACH 100'-0" W. X 160'-0" L.
- II. BARDENPHO PROCESS PLANT, 8 MGD, CONSISTING OF:
 1. LIFT STATION WITH ASSOCIATED PUMPS.
 2. HEADWORKS BUILDING WITH BAR SCREENS, ASSOCIATED PUMPS AND CONVEYORS.
 3. GRIT CHAMBER, NON-AERATED GRAVITY SETTLING TYPE, COVERED, 13,000 GALLON CAPACITY WITH ASSOCIATED MIXERS, CLASSIFIERS AND PUMPS.
 4. BARDENPHO PROCESS AREA, SECONDARY TREATMENT, THREE (3) PARALLEL TRAINS, EACH CONSISTING OF:
 - A. FERMENTATION BASINS, EACH 170,000 GALLON CAPACITY WITH ASSOCIATED MIXERS.
 - B. PRIMARY DENITRIFICATION BASIN, 1,100,000 GALLONS WITH ASSOCIATED MIXERS.
 - C. NITRIFICATION BASIN, 3,600,000 GALLON CAPACITY WITH ASSOCIATED MIXERS AND PUMPS.
 - D. TWO SECONDARY DENITRIFICATION BASINS, EACH 500,000 GALLONS WITH ASSOCIATED PUMPS.
 - E. REAERATION BASINS, 140,000 GALLONS WITH ASSOCIATED AERATION BLOWER.
 5. TWO SECONDARY CLARIFIERS, EACH 1,400,000 GALLONS WITH ASSOCIATED SKIMMERS.
 6. RAS/WAS PUMP STATION WITH ASSOCIATED PUMPS AND GRINDERS.

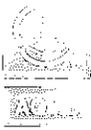


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7. SLUDGE DEWATERING FACILITY WITH THREE BELT PRESSES, EACH TWO METER, ONE 150 GALLON POLYMER STORAGE TANK, ONE 710 CUBIC FEET SLUDGE HOPPER WITH TRUCK LOADOUT, ASSOCIATED PUMPS AND CONVEYORS.
8. FLOW EQUALIZATION BASIN, 3,600,000 GALLONS WITH ASSOCIATED MIXERS/AERATORS.
9. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
10. FLOCCULATION BASIN, 45,000 GALLONS.
11. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
12. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
13. CHLORINE INJECTION/SPLITTER BOX.
14. CHLORINE CONTACT TANK, SPLIT FLOW, THREE COMPARTMENT, EACH COMPARTMENT, 500,000 GALLONS.
15. SO₂ INJECTION BOX.
16. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
17. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
18. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
19. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
20. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.
21. ONE (1) SLUDGE DRYING BED, 240'-0" W. X 625'-0" L. X 0'-8" D.
22. ONE (1) SEPTAGE RECEIVING SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT SHALL NOT EXCEED 11 MILLION GALLONS IN ANY ONE DAY, EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
5. THE WET WELL SHALL REMAIN SEALED EXCEPT DURING INSPECTION AND MAINTENANCE. OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED AT THE WET WELL.
[RULE 1303]



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6. THE FACILITY OPERATOR SHALL CONDUCT H₂S MONITORING, USING AN ITX MULTI-GAS MONITOR OR EQUIVALENT ELECTROCHEMICAL SENSOR ACCURATE TO 1 PPM, DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT. THE MONITOR SHALL BE PROPERLY CALIBRATED BEFORE EACH DAILY USE. THE MONITORING SHALL BE CONDUCTED OUTSIDE OF THE WET WELL ENTRANCE DOOR AND THE AREA ABOVE THE WET WELL COMPARTMENT. RESULTS OF THE H₂S MONITORING SHALL BE RECORDED AT A MINIMUM OF 15 MINUTE INTERVALS.
[RULE 431.1]

7. WHENEVER THE H₂S CONCENTRATION MONITORED DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT EXCEEDS DETECTION LIMITS OF THE H₂S MONITORING DEVICE, RELATIVE TO BACKGROUND CONCENTRATIONS, THE WET WELL INSPECTION/MAINTENANCE EVENT SHALL BE DISCONTINUED AND THE WET WELL DOOR SHALL BE CLOSED.
[RULE 431.1]

THIS PERMIT TO OPERATE R-F69264 SUPERSEDES PERMIT TO OPERATE F69264 ISSUED ON JUNE 30, 2004.



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**Permit No. G3951
A/N 466470**

Equipment Description:

STORAGE TANK, NO. 1, LIQUEFIED PROPANE GAS, 9'-0" D. X 41'-6" L., PRESSURIZED, 18,328 GALLONS (76,700 POUNDS) CAPACITY, WITH PRESSURE RELIEF VALVE.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE USED ONLY TO STORE LIQUEFIED PROPANE GAS.
[RULE 204]
4. THE OPERATOR SHALL FILL THE TANK ONLY WITH A CLOSED SYSTEM WHICH DOES NOT VENT VAPORIZED GAS INTO THE ATMOSPHERE.
[RULE 204]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN PRESSURE RELIEF VALVE WHICH IS SET AT A MINIMUM PRESSURE OF 250 PSIG.
[RULE 204]
6. THE OPERATOR SHALL FILL THE TANK AT A FLOW RATE AND TEMPERATURE WHICH DOES NOT CAUSE THE PRESSURE INSIDE THE STORAGE TANK TO EXCEED 250 PSIG.
[RULE 204]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO MONITOR THE PRESSURE INSIDE THE STORAGE TANK.
[RULE 204]



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8. ONCE PER MONTH, AND AFTER EACH TANK FILLING OPERATION, THE OPERATOR SHALL MEASURE AND RECORD THE PRESSURE OF THE STORAGE TANK.
[RULE 204]
9. THE OPERATOR SHALL NOT FILL THIS STORAGE TANK MORE THAN ONCE PER CALENDAR MONTH.
[RULE 1304 – OFFSET]
10. RECORDS SHALL BE MAINTAINED AND RETAINED FOR A PERIOD NOT LESS THAN FIVE YEARS, AND INCLUDE THE TEMPERATURE AND PRESSURE INSIDE THE STORAGE TANK, QUANTITY OF THE MOST RECENT FILLING OF THE STORAGE TANK, AND THE DATE OF THE DELIVERY OF THE LPG.
[RULE 204]

Emissions and Requirements:

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

VOC: RULE 442



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**Permit No. G3952
A/N 466471**

Equipment Description:

STORAGE TANK, NO. 2, LIQUEFIED PROPANE GAS, 6'-0" D. X 52'-7" L., PRESSURIZED, 10,677 GALLONS (44,630 POUNDS) CAPACITY, WITH PRESSURE RELIEF VALVE.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE USED ONLY TO STORE LIQUEFIED PROPANE GAS.
[RULE 204]
4. THE OPERATOR SHALL FILL THE TANK ONLY WITH A CLOSED SYSTEM WHICH DOES NOT VENT VAPORIZED GAS INTO THE ATMOSPHERE.
[RULE 204]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN PRESSURE RELIEF VALVE WHICH IS SET AT A MINIMUM PRESSURE OF 250 PSIG.
[RULE 204]
6. THE OPERATOR SHALL FILL THE TANK AT A FLOW RATE AND TEMPERATURE WHICH DOES NOT CAUSE THE PRESSURE INSIDE THE STORAGE TANK TO EXCEED 250 PSIG.
[RULE 204]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO MONITOR THE PRESSURE INSIDE THE STORAGE TANK.
[RULE 204]



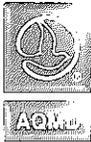
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8. ONCE PER MONTH, AND AFTER EACH TANK FILLING OPERATION, THE OPERATOR SHALL MEASURE AND RECORD THE TEMPERATURE AND PRESSURE OF THE STORAGE TANK.
[RULE 204]
9. THE OPERATOR SHALL NOT FILL THIS STORAGE TANK MORE THAN ONCE PER CALENDAR MONTH.
[RULE 1304 – OFFSET]
10. RECORDS SHALL BE MAINTAINED AND RETAINED FOR A PERIOD NOT LESS THAN FIVE YEARS, AND INCLUDE THE TEMPERATURE AND PRESSURE INSIDE THE STORAGE TANK, QUANTITY OF THE MOST RECENT FILLING OF THE STORAGE TANK, AND THE DATE OF THE DELIVERY OF THE LPG.
[RULE 204]

Emissions and Requirements:

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

VOC: RULE 442



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G9937
A/N 499897**

Equipment Description:

DIGESTER GAS TREATMENT SYSTEM AND FUEL CELL POWER PLANT CONSISTING OF:

1. KNOCKOUT TANK.
2. TWO HYDROGEN SULFIDE REMOVAL VESSELS, APPLIED FILTER TECHNOLOGY, ESC CORPORATION, OR EQUIVALENT, AT LEAST 10'-0" DIA. X 10'-0" H., EACH WITH AT LEAST 25,000 POUNDS MEDIA.
3. PARTICULATE FILTER.
4. PRE-COOLER WITH DEMISTER.
5. ONE COMPRESSOR, 325 SCFM, ELECTRICALLY DRIVEN.
6. GAS PRE-COOLER AND COOLER WITH DEMISTER.
7. GAS RE-HEATER / HEAT EXCHANGER.
8. TWO SILOXANE REMOVAL VESSELS, APPLIED FILTER TECHNOLOGY, ESC CORPORATION, OR EQUIVALENT, AT LEAST 4'-0" DIA. X 8'-0" H. BED DEPTH, EACH CONTAINING AT LEAST 2,500 POUNDS MEDIA.
9. PARTICULATE FILTER.
10. TWO FUEL CELLS, FUEL-CELL ENERGY, MODEL DFC300MA, 600 KW TOTAL MAXIMUM POWER OUTPUT.
11. TWO HEAT RECOVERY UNITS, EACH WITH AN ELECTRIC HEATER.

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]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

3. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD FOR APPROVAL, THE FINAL DIGESTER GAS TREATMENT SYSTEM AND FUEL CELL POWER PLANT DESIGN DRAWINGS, P&I DIAGRAMS, CONTROLS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL, DIMENSIONS, SIZE AND MAXIMUM CAPACITY) AND MANUFACTURER'S EMISSION CERTIFICATION, PRIOR TO INSTALLATION OF THE EQUIPMENT.
[RULE 204]
4. THIS EQUIPMENT SHALL BE USED ONLY FOR THE TREATMENT/CONTROL OF DIGESTER GAS, AND THE GENERATION OF ELECTRICITY AND HOT WATER, EXCEPT WHEN NATURAL GAS IS REQUIRED AS FUEL TO MAINTAIN FUEL CELL OPERATION.
[RULE 204]
5. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW DIGESTER GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOURS 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 204, RULE 402]
6. A NON-RESETTABLE TOTALIZING FLOW METER SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE TOTAL QUANTITY OF GAS TREATED.
[RULE 204]
7. SAMPLING PORTS SHALL BE INSTALLED AT THE INLET GAS LINE TO THE DIGESTER GAS TREATMENT SYSTEM AND TO THE FUEL-CELL PRE-CONVERTER TO ALLOW THE COLLECTION OF DIGESTER GAS SAMPLES.
[RULE 217]
8. TWO SAMPLING PORTS SHALL BE PROVIDED IN THE FUEL-CELL EXHAUST DUCT, 8-10 DUCT DIAMETERS DOWNSTREAM, AND TWO DUCT DIAMETERS UPSTREAM. THE SAMPLING PORT SHALL CONSIST OF TWO 4 INCH OUTLETS WITH BLIND FLANGE CONNECTIONS, SET 90 DEGREES APART. AN ALTERNATE SAMPLING LOCATION OR EQUIVALENT METHOD FOR EMISSION SAMPLING MAY BE USED UPON WRITTEN APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE SUPPLIED BY THE APPLICANT.
[RULE 217]
9. THE OPERATOR SHALL MEASURE THE CONCENTRATION OF TOTAL SULFUR AT THE INLET AND OUTLET OF THE DIGESTER GAS TREATMENT SYSTEM ONCE EACH QUARTER, USING METHODS APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED AND REPORTED IN PPMV AS H₂S.
[RULE 204]
10. THE CONCENTRATION OF SULFUR COMPOUNDS MEASURED AS HYDROGEN SULFIDE (H₂S) AT THE INLET TO THE FUEL CELL PRE-CONVERTER SHALL NOT EXCEED 6.1 PPMV.
[RULE 204]



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11. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETED BY SEPTEMBER 9, 2011, UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]
12. THE SPENT MEDIA WHICH IS REMOVED FROM THE SYSTEM SHALL BE MAINTAINED OR STORED IN CLOSED CONTAINERS PRIOR TO REMOVAL FROM THE FACILITY.
[RULE 402]
13. THE SULFUR AND SILOXANE TREATMENT MEDIA SHALL BE REPLACED AT A FREQUENCY NECESSARY TO MAINTAIN COMPLIANCE WITH THE EMISSION LIMITS IN THIS PERMIT AND TO OPERATE THE FUEL CELL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
[RULE 204]
14. THE TOTAL VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS FROM THE FUEL CELLS SHALL NOT EXCEED 0.08 LBS/HR (1.95 LBS/DAY).
[RULE 1303-OFFSET]
15. ONCE EVERY FIVE YEARS, THE OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN SIXTY (60) DAYS AFTER TESTING. WRITTEN NOTICE OF THE SOURCE TEST SHALL BE PROVIDED TO THE SCAQMD AT LEAST 7 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. A PROPOSAL OF SOURCE TEST PROCEDURES AND ANALYTICAL METHODS TO BE USED SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 60 DAYS PRIOR TO THE START OF THE TEST. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE OUTLET EXHAUST OF AT LEAST ONE FUEL CELL, THE RAW DIGESTER GAS, AND THE TREATED DIGESTER GAS, UNLESS OTHERWISE INDICATED BELOW. THE TEST SHALL INCLUDE THE FOLLOWING RESULTS AND PROCESS DATA:
 - A. METHANE CONTENT OF THE RAW AND TREATED DIGESTER GAS.
 - B. TOTAL NON-METHANE ORGANIC COMPOUNDS OF THE RAW DIGESTER GAS, TREATED DIGESTER GAS, AND AT LEAST ONE FUEL CELL EXHAUST OUTLET.
 - C. OXIDES OF NITROGEN AND OXIDES OF SULFUR (AT LEAST ONE FUEL CELL OUTLET) IN PPM AND LBS/HR.
 - D. CARBON MONOXIDE, (AT LEAST ONE FUEL CELL OUTLET), IN PPM, AND LBS/HR.
 - E. OXYGEN CONTENT.
 - F. MOISTURE CONTENT.
 - G. TEMPERATURE OF THE FUEL CELL.
 - H. TEMPERATURE AT INLET AND OUTLET OF THE PRE-CONVERTER.
 - I. FLOW RATE OF THE FUEL CELL EXHAUST OUTLET.



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- J. TOTAL REDUCED SULFUR COMPOUNDS (RAW DIGESTER GAS AND TREATED DIGESTER GAS).
 - K. POWER OUTPUT OF THE FUEL CELL.
 - L. BTU CONTENT OF THE TREATED DIGESTER GAS.
 - M. FUEL UTILIZATION OF THE FUEL CELL.
 - N. TREATED DIGESTER GAS FEED RATE TO THE PRE-CONVERTER.
[RULE 204, RULE 1303-OFFSET, RULE 3004(a)(4)]
16. IF THE OPERATION OF THIS EQUIPMENT RESULTS IN ODOR COMPLAINTS, THE WORK SHALL CEASE AND MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE EMISSIONS CAUSING THE COMPLAINTS ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD.
[RULE 402]
17. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL KEEP RECORDS OF OPERATING AND MONITORING DATA, AND TREATMENT MEDIA REPLACEMENT DATES. THESE RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUESTS.
[RULE 3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G9939
A/N 503372

Equipment Description:

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL 9390 GSI, SERIAL NO. C10379/2, NATURAL GAS FIRED WITH LPG AS STANDBY FUEL, 16-CYLINDER, FOUR CYCLE, RICH BURN, TURBOCHARGED, AFTERCOOLED, 1970 BHP, WITH AUTOMATIC AIR-TO-FUEL RATIO CONTROLLER, DRIVING AN EMERGENCY ELECTRIC GENERATOR, VENTED TO A THREE WAY CATALYST, MIRATECH, MODEL NO. EQSY48361X2-18-C4.

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 EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY. LPG MAY BE USED IN THE EVENT OF NATURAL GAS CURTAILMENT AND TESTING.
[RULE 1303(a)(1)-BACT]
4. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204, RULE 1303]
5. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1303(a)(1)-BACT]
6. THE CATALYTIC CONVERTER TEMPERATURE AND OXYGEN CONCENTRATION AT THE OUTLET OF THIS ENGINE SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1303(a)(1)-BACT]
7. THIS ENGINE SHALL BE EQUIPPED WITH AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303(a)(1)-BACT]



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8. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1303]
9. OPERATION BEYOND 50 HOURS PER YEAR FOR MAINTENANCE AND TESTING IS ALLOWED ONLY DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE ELECTRICAL GRID OPERATOR. OPERATORS ARE ALLOWED TO USE EMERGENCY SPARK-IGNITION ENGINES AS PART OF AN INTERRUPTIBLE ELECTRIC SERVICE PROGRAM.
[RULE 1303(a)(1)-BACT]
10. 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).
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.[RULE 204, RULE 1303]
11. THE OPERATOR SHALL COMPLY WITH THE APPLICABLE AREA SOURCE REQUIREMENTS FOR EXISTING STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF 40 CFR PART 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES.
[40CFR63- SUBPART ZZZZ]

Emissions and Requirements:

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.15 GM/BHP-HR, RULE 1303
 - VOC: 0.15 GM/BHP-HR, RULE 1303
 - CO: 0.60 GM/BHP-HR, RULE 1303



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G13149
A/N 510552

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 1, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, RICH BURN, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A MIRATECH, MODEL SP-IQS-12X3-06-EC2, NON-SELECTIVE CATALYTIC CONVERTER, DRIVING AN AERATION BLOWER, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
4. THIS ENGINE SHALL ONLY USE NATURAL GAS AS FUEL, EXCEPT LPG FUEL SHALL ONLY BE USED DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.
[RULE 1303(a)(1)-BACT]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
6. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I & M) PLAN BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]
7. A NON-RESETTABLE OPERATIONAL TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN CUMULATIVE HOURS, THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2]



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8. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 1110.2]
9. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
10. THE CONCENTRATION OF THE FOLLOWING COMPOUNDS MEASURED AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED THE FOLLOWING EFFECTIVE JULY 1, 2011, EXCEPT DURING COLD START-UP WHICH SHALL NOT EXCEED 30 MINUTES OR OTHERWISE APPROVED BY SCAQMD:

NOX: 11 PPMVD AT 15% O₂
VOC: 30 PPMVD AT 15% O₂
CO: 250 PPMVD AT 15% O₂
[RULE 1110.2]

Periodic Monitoring:

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE, 1110.2, RULE 3004 (a)(4)]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH MANUFACTURER SPECIFICATIONS. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
14. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 7/9/2010, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2, RULE 3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

15. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.
[RULE 1110.2, RULE 3004(a)(4)]
16. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 204, RULE 3004(a)(4)]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
18. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
19. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1350 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
20. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 600 DEGREES F AND 1250 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
21. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 3004(a)(4)]

Emissions and Requirements:

22. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - CO: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - CO: 2000 PPMVD AT 15% O₂, RULE 1110.2
 - NOX: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - NOX: 45 PPMVD AT 15% O₂, RULE 1110.2
 - VOC: 1.0 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - VOC: 250 PPMVD AT 15% O₂, RULE 1110.2



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO OPERATE

**Permit No. G13150
A/N 510553**

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 2, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, RICH BURN, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A MIRATECH, MODEL SP-IQS-12X3-06-EC2, NON-SELECTIVE CATALYTIC CONVERTER, DRIVING AN AERATION BLOWER, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
4. THIS ENGINE SHALL ONLY USE NATURAL GAS AS FUEL, EXCEPT LPG FUEL SHALL ONLY BE USED DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.
[RULE 1303(a)(1)-BACT]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
6. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I & M) PLAN BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]
7. A NON-RESETTABLE OPERATIONAL TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN CUMULATIVE HOURS, THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2]



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8. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 1110.2]
9. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
10. THE CONCENTRATION OF THE FOLLOWING COMPOUNDS MEASURED AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED THE FOLLOWING EFFECTIVE JULY 1, 2011, EXCEPT DURING COLD START-UP WHICH SHALL NOT EXCEED 30 MINUTES OR OTHERWISE APPROVED BY SCAQMD:

NOX: 11 PPMVD AT 15% O₂
VOC: 30 PPMVD AT 15% O₂
CO: 250 PPMVD AT 15% O₂
[RULE 1110.2]

Periodic Monitoring:

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE, 1110.2, RULE 3004 (a)(4)]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH MANUFACTURER SPECIFICATIONS. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
14. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 7/9/2010, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2, RULE 3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

15. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.[RULE 1110.2, RULE 3004(a)(4)]
16. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 204, RULE 3004(a)(4)]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
18. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
19. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1350 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
20. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 600 DEGREES F AND 1250 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
21. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 3004(a)(4)]

Emissions and Requirements:

22. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - CO: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - CO: 2000 PPMVD AT 15% O₂, RULE 1110.2
 - NOX: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - NOX: 45 PPMVD AT 15% O₂, RULE 1110.2
 - VOC: 1.0 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - VOC: 250 PPMVD AT 15% O₂, RULE 1110.2



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO OPERATE

**Permit No. G13151
A/N 510554**

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 3, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, RICH BURN, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A MIRATECH, MODEL SP-IQS-12X3-06-EC2, NON-SELECTIVE CATALYTIC CONVERTER, DRIVING AN AERATION BLOWER, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
4. THIS ENGINE SHALL ONLY USE NATURAL GAS AS FUEL, EXCEPT LPG FUEL SHALL ONLY BE USED DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.
[RULE 1303(a)(1)-BACT]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
6. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I & M) PLAN BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]
7. A NON-RESETTABLE OPERATIONAL TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN CUMULATIVE HOURS, THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2]



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8. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 1110.2]
9. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
10. THE CONCENTRATION OF THE FOLLOWING COMPOUNDS MEASURED AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED THE FOLLOWING EFFECTIVE JULY 1, 2011, EXCEPT DURING COLD START-UP WHICH SHALL NOT EXCEED 30 MINUTES OR OTHERWISE APPROVED BY SCAQMD:

NOX: 11 PPMVD AT 15% O₂
VOC: 30 PPMVD AT 15% O₂
CO: 250 PPMVD AT 15% O₂
[RULE 1110.2]

Periodic Monitoring:

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE, 1110.2, RULE 3004 (a)(4)]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH MANUFACTURER SPECIFICATIONS. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
14. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 7/9/2010, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2, RULE 3004(a)(4)]



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15. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.
[RULE 1110.2, RULE 3004(a)(4)]
16. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 204, RULE 3004(a)(4)]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
18. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
19. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1350 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
20. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 600 DEGREES F AND 1250 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
21. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 3004(a)(4)]

Emissions and Requirements:

22. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - CO: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - CO: 2000 PPMVD AT 15% O₂, RULE 1110.2
 - NOX: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - NOX: 45 PPMVD AT 15% O₂, RULE 1110.2
 - VOC: 1.0 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
 - VOC: 250 PPMVD AT 15% O₂, RULE 1110.2



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO OPERATE

**Permit No. G22436
A/N 529142**

Equipment Description:

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL P9390GL, SERIAL NO. C10379/1, NATURAL GAS FIRED, TURBOCHARGED, WATER CONNECTED COOLING, SIXTEEN CYLINDERS, FOUR CYCLE, 2200 BHP, LEAN BURN, PRECHAMBER DESIGN, WITH AN OXIDATION CATALYTIC MUFFLER, DRIVING A 1540 KW EMERGENCY ELECTRICAL GENERATOR.

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 ONLY USE LIQUID PETROLEUM GAS (LPG) AS AN EMERGENCY BACK-UP FUEL FOR THIS EQUIPMENT WHEN NATURAL GAS IS NOT AVAILABLE, OR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303]
4. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204]
5. THE CATALYTIC CONVERTER TEMPERATURE AND OXYGEN CONCENTRATION AT THE OUTLET OF THIS ENGINE SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 204]
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 AND OFFSETS EXEMPTIONS, 40CFR63 Subpart ZZZZ]
7. 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 AND OFFSET EXEMPTION]



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8. OPERATION BEYOND 50 HOURS PER YEAR FOR MAINTENANCE AND TESTING IS ALLOWED ONLY DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE ELECTRICAL GRID OPERATOR. OPERATORS ARE ALLOWED TO USE EMERGENCY SPARK-IGNITION ENGINES AS PART OF AN INTERRUPTIBLE ELECTRIC SERVICE PROGRAM.
[RULE 1303(a)(1)-BACT]
9. THIS ENGINE SHALL NOT BE OPERATED FOR MORE THAN 30 MINUTES PRIOR TO THE TIME WHEN THE EMERGENCY CONDITION IS EXPECTED TO OCCUR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, AND THE ENGINE OPERATION MUST BE TERMINATED IMMEDIATELY AFTER THE FACILITY IS NOTIFIED THAT THE EMERGENCY CONDITION IS NOT LONGER IMMINENT.
[40CFR63 Subpart ZZZZ]
10. OPERATION UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM SHALL BE COUNTED TOWARDS THE MAINTENANCE AND TESTING HOURS FOR THIS ENGINE.
[40CFR63 Subpart ZZZZ]
11. IF THIS ENGINE OPERATES FOR MORE THAN 15 HOURS IN ANY ONE CALENDAR YEAR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, THEN THE ENGINE SHALL BE CONSIDERED A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS FOR A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ.
[40CFR63 Subpart ZZZZ]
12. 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 AND OFFSET EXEMPTION]

13. THE OPERATOR SHALL COMPLY WITH THE APPLICABLE AREA SOURCE REQUIREMENTS FOR EXISTING STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF 40 CFR PART 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES.
[40CFR63 SUBPART ZZZZ]



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Emissions and Requirements

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

NOX: 1.5 G/BHP-HR, RULE 1303
VOC: 1.5 G/BHP-HR, RULE 1303
CO: 2.0 G/BHP-HR, RULE 1303



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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, ARCHITECTURAL COATINGS

Emissions And Requirements:

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

VOC: RULE 1113



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions And Requirements:

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

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS.



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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HALON EMISSIONS FROM FIRE EXTINGUISHING EQUIPMENT

Emissions And Requirements:

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

HALON: RULE 1418