

FACILITY PERMIT TO CONSTRUCT LA CO., SANITATION DIST

PERMIT TO CONSTRUCT

Granted as of
A/N 501721

Equipment Description:

LANDFILL GAS TO ENERGY SYSTEM NO. 1 CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE NO. 1, CATERPILLAR, MODEL G3616, SIXTEEN CYLINDER, 4261 BHP, LEAN BURN, LANDFILL GAS/NATURAL GAS FIRED, TURBOCHARGED AND AFTERCOOLED, DRIVING A 3 MW ELECTRICAL GENERATOR.
2. COMPRESSOR, 1468 CFM, 300 HP
3. ANCILLARY RADIATOR AND AFTERCOOLER WITH ELECTRIC FANS
4. ANCILLARY MUFFLER EXHAUST STACK.

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. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE EMISSION OF RAW LANDFILL GAS TO THE ATMOSPHERE.
[RULE 1150.1]
4. A SAMPLING PORT SHALL BE INSTALLED IN THE LANDFILL GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A GAS SAMPLE.
[RULE 431.1]
5. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE GAS SUPPLY LINE FOR ALL FUELS TO THE ENGINE.
[RULE 1303 (b)(2)-OFFSET]
6. THE COMBINED TOTAL LANDFILL GAS FLOW RATE AT PUENTE HILLS LANDFILL SHALL NOT EXCEED 39,800 SCFM.
[RULE 1303 (b)(2)-OFFSET]

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7. THE HEAT INPUT OF GAS TO THE ENGINE SHALL NOT EXCEED 34 MM BTU PER HOUR. A WEEKLY LOG OF THE GAS HEAT INPUT, BASED ON THE RECORDED FLOW RATE (SCFM) AND HIGHER HEATING VALUE, SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]
8. READINGS OF THE HIGHER HEATING VALUE OF THE GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN WEEKLY WITH AN AQMD APPROVED INSTRUMENT AND THE RESULTS RECORDED.
[RULE 1303 (b)(2)-OFFSET]
9. THE ENGINE SHALL ONLY USE LANDFILL GAS OR A COMBINATION OF LANDFILL GAS AND NATURAL GAS.
[RULE 204]
10. THE TOTAL NATURAL GAS USAGE SHALL NOT EXCEED 25 PERCENT OF THE TOTAL ENGINE HEAT INPUT ON AN AVERAGE DAILY BASIS AND 10 PERCENT ON A MONTHLY BASIS.
[RULE 1303 (b)(2)-OFFSET]
11. OTHER THAN IN THE ENRICHED PRE-COMBUSTION CHAMBER, NATURAL GAS SHALL NOT BE USED IN THIS ENGINE TO GENERATE ELECTRICITY FOR DISTRIBUTION IN THE STATE GRID SYSTEM.
[RULE 1303 (b)(2)-OFFSET]
12. OTHER THAN IN THE ENRICHED PRE-COMBUSTION CHAMBER, NATURAL GAS SHALL ONLY BE FIRED IN THIS ENGINE TO PROVIDE ELECTRICITY TO THE SANITATION DISTRICTS' OPERATED FACILITIES AT THE PUENTE HILLS LANDFILL, SAN JOSE CREEK WATER RECLAMATION PLANT AND THE JOINT ADMINISTRATION OFFICE.
[RULE 1303 (b)(2)-OFFSET]
13. SAMPLING PORTS SHALL BE PROVIDED IN THE ENGINE EXHAUST DUCT, 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AND SHALL CONSIST OF TWO PROPERLY SIZED WELD NIPPLES WITH PLUGS, 90 DEGREES APART. AN EQUIVALENT METHOD FOR EMISSION SAMPLING MAY BE USED UPON APPROVAL OF THE AQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE SUPPLIED BY THE APPLICANT.
[RULE 217]

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14. APPLICANT SHALL CONDUCT ANNUAL PERFORMANCE TEST OF THE ENGINE IN ACCORDANCE WITH AQMD TEST PROCEDURES AND FURNISH THE AQMD A WRITTEN RESULT OF SUCH PERFORMANCE TEST. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. A TEST PROTOCOL SHALL BE SUBMITTED FOR APPROVAL AT LEAST 60 DAYS PRIOR TO TESTING.

THE PERFORMANCE TEST SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO A TEST OF THE INLET AND EXHAUST GASES, FOR THE FOLLOWING:

- A. METHANE
- B. TOTAL NON-METHANE HYDROCARBONS
- C. OXIDES OF NITROGEN (EXHAUST ONLY)
- D. CARBON MONOXIDE (EXHAUST ONLY)
- E. PARTICULATES (EXHAUST ONLY)
- F. TOTAL SULFUR COMPOUNDS AS H₂S (INLET ONLY)
- G. FLOW RATE
- H. OXYGEN
- I. NITROGEN
- J. CARBON DIOXIDE
- K. MOISTURE
- L. TEMPERATURE
- M. TOXIC AIR CONTAMINANTS INCLUDING BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1,1-DICHLOROETHANE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE AND XYLENES (EXHAUST ONLY).

[RULE 1303 (b)(2)-OFFSET, 1401]

15. THE EMISSIONS FROM THE ENGINE SHALL NOT EXCEED THE FOLLOWING:

| AIR CONTAMINANT | LBS/HR |
|--------------------------|--------|
| NON-METHANE HYDROCARBONS | 1.69 |
| NITROGEN OXIDE | 4.79 |
| SULFUR DIOXIDE | 1.86 |
| CARBON MONOXIDE | 23.5 |
| PARTICULATES | 1.58 |

[RULE 1303 (b)(2)-OFFSET]

16. NON-METHANE HYDROCARBON EMISSIONS SHALL NOT EXCEED 20 PPMV AT 3% O₂, AS HEXANE UNLESS THE EMISSIONS HAVE BEEN REDUCED BY AT LEAST 98% BY WEIGHT ACROSS THE ENGINE.

[RULE 1150.1]

17. A CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST CONCENTRATION FOR NO_x AND O₂ ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO_x CONCENTRATION TO A CORRECTED NO_x CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF AQMD RULE 218.

[RULE 218]

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18. ALL RECORDS, SUCH AS FUEL USAGE, MAINTENANCE RECORDS AND PERFORMANCE TEST RESULTS, SHALL BE MAINTAINED FOR FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303 (b)(2)-OFFSET]
19. THIS ENGINE SHALL NOT BE OPERATED IN SUCH A MANNER AS TO INTERFERE WITH THE OWNER'S/OPERATOR'S ABILITY TO COMPLY WITH AQMD RULE 1150.1 OR ANY OTHER AQMD RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]

Emissions and Requirements:

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

NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR63 SUBPART AAAA
NMOC: 196 PPMV@ 15% O₂, RULE 1303 (a)(1)-BACT (AS METHANE, 1 - HR AVG.)
NMOC: 60 PPMV@ 15% O₂, RULE 1110.2 (ECF= 1.49)
NOX: 51 PPMV@ 15% O₂, RULE 1303 (a)(1)-BACT (1- HR AVG.)
NOX: 54 PPMV@ 15% O₂, RULE 1110.2 (ECF = 1.49)
CO: 351 PPMV@ 15% O₂, RULE 1303 (a)(1)-BACT (1 - HR AVG.)
CO: 2000 PPMV@ 15% O₂, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO CONSTRUCT LA CO., SANITATION DIST

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Granted as of
A/N 501722

Equipment Description:

LANDFILL GAS TO ENERGY SYSTEM NO. 2 CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE NO. 2, CATERPILLAR, MODEL G3616, SIXTEEN CYLINDER, 4261 BHP, LEAN BURN, LANDFILL GAS/NATURAL GAS FIRED, TURBOCHARGED AND AFTERCOOLED, DRIVING A 3 MW ELECTRICAL GENERATOR.
2. COMPRESSOR, 1468 CFM, 300 HP
3. ANCILLARY RADIATOR AND AFTERCOOLER WITH ELECTRIC FANS
4. ANCILLARY MUFFLER EXHAUST STACK.

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. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE EMISSION OF RAW LANDFILL GAS TO THE ATMOSPHERE.
[RULE 1150.1]
4. A SAMPLING PORT SHALL BE INSTALLED IN THE LANDFILL GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A GAS SAMPLE.
[RULE 431.1]
5. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE GAS SUPPLY LINE FOR ALL FUELS TO THE ENGINE.
[RULE 1303 (b)(2)-OFFSET]
6. THE COMBINED TOTAL LANDFILL GAS FLOW RATE AT PUENTE HILLS LANDFILL SHALL NOT EXCEED 39,800 SCFM.
[RULE 1303 (b)(2)-OFFSET]

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- 7. THE HEAT INPUT OF GAS TO THE ENGINE SHALL NOT EXCEED 34 MM BTU PER HOUR. A WEEKLY LOG OF THE GAS HEAT INPUT, BASED ON THE RECORDED FLOW RATE (SCFM) AND HIGHER HEATING VALUE, SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]
- 8. READINGS OF THE HIGHER HEATING VALUE OF THE GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN WEEKLY WITH AN AQMD APPROVED INSTRUMENT AND THE RESULTS RECORDED.
[RULE 1303 (b)(2)-OFFSET]
- 9. THE ENGINE SHALL ONLY USE LANDFILL GAS OR A COMBINATION OF LANDFILL GAS AND NATURAL GAS.
[RULE 204]
- 10. THE TOTAL NATURAL GAS USAGE SHALL NOT EXCEED 25 PERCENT OF THE TOTAL ENGINE HEAT INPUT ON AN AVERAGE DAILY BASIS AND 10 PERCENT ON A MONTHLY BASIS.
[RULE 1303 (b)(2)-OFFSET]
- 11. OTHER THAN IN THE ENRICHED PRE-COMBUSTION CHAMBER, NATURAL GAS SHALL NOT BE USED IN THIS ENGINE TO GENERATE ELECTRICITY FOR DISTRIBUTION IN THE STATE GRID SYSTEM.
[RULE 1303 (b)(2)-OFFSET]
- 12. OTHER THAN IN THE ENRICHED PRE-COMBUSTION CHAMBER, NATURAL GAS SHALL ONLY BE FIRED IN THIS ENGINE TO PROVIDE ELECTRICITY TO THE SANITATION DISTRICTS OPERATED FACILITIES AT THE PUENTE HILLS LANDFILL, SAN JOSE CREEK WATER RECLAMATION PLANT AND THE JOINT ADMINISTRATION OFFICE.
[RULE 1303 (b)(2)-OFFSET]
- 13. SAMPLING PORTS SHALL BE PROVIDED IN THE ENGINE EXHAUST DUCT, 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AND SHALL CONSIST OF TWO PROPERLY SIZED WELD NIPPLES WITH PLUGS, 90 DEGREES APART. AN EQUIVALENT METHOD FOR EMISSION SAMPLING MAY BE USED UPON APPROVAL OF THE AQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE SUPPLIED BY THE APPLICANT.
[RULE 217]

FACILITY PERMIT TO CONSTRUCT LA CO., SANITATION DIST

14. APPLICANT SHALL CONDUCT ANNUAL PERFORMANCE TEST OF THE ENGINE IN ACCORDANCE WITH AQMD TEST PROCEDURES AND FURNISH THE AQMD A WRITTEN RESULT OF SUCH PERFORMANCE TEST. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. A TEST PROTOCOL SHALL BE SUBMITTED FOR APPROVAL AT LEAST 60 DAYS PRIOR TO TESTING.

THE PERFORMANCE TEST SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO A TEST OF THE INLET AND EXHAUST GASES, FOR THE FOLLOWING:

- A. METHANE
- B. TOTAL NON-METHANE HYDROCARBONS
- C. OXIDES OF NITROGEN (EXHAUST ONLY)
- D. CARBON MONOXIDE (EXHAUST ONLY)
- E. PARTICULATES (EXHAUST ONLY)
- F. TOTAL SULFUR COMPOUNDS AS H₂S (INLET ONLY)
- G. FLOW RATE
- H. OXYGEN
- I. NITROGEN
- J. CARBON DIOXIDE
- K. MOISTURE
- L. TEMPERATURE
- M. TOXIC AIR CONTAMINANTS INCLUDING BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1,1-DICHLOROETHANE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE AND XYLENES (EXHAUST ONLY).

[RULE 1303 (b)(2)-OFFSET, 1401]

15. THE EMISSIONS FROM THE ENGINE SHALL NOT EXCEED THE FOLLOWING:

| AIR CONTAMINANT | LBS/HR |
|--------------------------|--------|
| NON-METHANE HYDROCARBONS | 1.69 |
| NITROGEN OXIDE | 4.79 |
| SULFUR DIOXIDE | 1.86 |
| CARBON MONOXIDE | 23.5 |
| PARTICULATES | 1.58 |

[RULE 1303 (b)(2)-OFFSET]

16. NON-METHANE HYDROCARBON EMISSIONS SHALL NOT EXCEED 20 PPMV AT 3% O₂ AS HEXANE, UNLESS THE EMISSIONS HAVE BEEN REDUCED BY AT LEAST 98% BY WEIGHT ACROSS THE ENGINE.

[RULE 1150.1]

17. A CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST CONCENTRATION FOR NOX AND O₂ ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATION TO A CORRECTED NOX CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF AQMD RULE 218.

[RULE 218]

FACILITY PERMIT TO CONSTRUCT LA CO., SANITATION DIST

18. ALL RECORDS, SUCH AS FUEL USAGE, MAINTENANCE RECORDS AND PERFORMANCE TEST RESULTS, SHALL BE MAINTAINED FOR FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303 (b)(2)-OFFSET]
19. THIS ENGINE SHALL NOT BE OPERATED IN SUCH A MANNER AS TO INTERFERE WITH THE OWNER'S/OPERATOR'S ABILITY TO COMPLY WITH AQMD RULE 1150.1 OR ANY OTHER AQMD RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]

Emissions and Requirements:

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

NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR63 SUBPART AAAAA
NMOC: 196 PPMV@ 15% O₂, RULE 1303 (a)(1)-BACT (AS METHANE, 1 - HR AVG.)
NMOC: 55 PPMV@ 15% O₂, RULE 1110.2 (ECF = 1.38)
NOX: 51 PPMV@ 15% O₂, RULE 1303 (a)(1)-BACT (1 - HR AVG.)
NOX: 50 PPMV@ 15% O₂, RULE 1110.2 (ECF = 1.38)
CO: 351 PPMV@ 15% O₂, RULE 1303 (a)(1)-BACT (1 - HR AVG.)
CO: 2000 PPMV@ 15% O₂, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO CONSTRUCT LA CO., SANITATION DIST

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Granted as of
A/N 501723

Equipment Description:

LANDFILL GAS TO ENERGY SYSTEM NO. 3 CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE NO. 3, CATERPILLAR, MODEL G3616, SIXTEEN CYLINDER, 4261 BHP, LEAN BURN, LANDFILL GAS/NATURAL GAS FIRED, TURBOCHARGED AND AFTERCOOLED, DRIVING A 3 MW ELECTRICAL GENERATOR.
2. COMPRESSOR, 1468 CFM, 300 HP
3. ANCILLARY RADIATOR AND AFTERCOOLER WITH ELECTRIC FANS
4. ANCILLARY MUFFLER EXHAUST STACK.

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. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE EMISSION OF RAW LANDFILL GAS TO THE ATMOSPHERE.
[RULE 1150.1]
4. A SAMPLING PORT SHALL BE INSTALLED IN THE LANDFILL GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A GAS SAMPLE.
[RULE 431.1]
5. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE GAS SUPPLY LINE FOR ALL FUELS TO THE ENGINE.
[RULE 1303 (b)(2)-OFFSET]
6. THE COMBINED TOTAL LANDFILL GAS FLOW RATE AT PUENTE HILLS LANDFILL SHALL NOT EXCEED 39,800 SCFM.
[RULE 1303 (b)(2)-OFFSET]

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7. THE HEAT INPUT OF GAS TO THE ENGINE SHALL NOT EXCEED 34 MM BTU PER HOUR. A WEEKLY LOG OF THE GAS HEAT INPUT, BASED ON THE RECORDED FLOW RATE (SCFM) AND HIGHER HEATING VALUE, SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]
8. READINGS OF THE HIGHER HEATING VALUE OF THE GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN WEEKLY WITH AN AQMD APPROVED INSTRUMENT AND THE RESULTS RECORDED.
[RULE 1303 (b)(2)-OFFSET]
9. THE ENGINE SHALL ONLY USE LANDFILL GAS OR A COMBINATION OF LANDFILL GAS AND NATURAL GAS.
[RULE 204]
10. THE TOTAL NATURAL GAS USAGE SHALL NOT EXCEED 25 PERCENT OF THE TOTAL ENGINE HEAT INPUT ON AN AVERAGE DAILY BASIS AND 10 PERCENT ON A MONTHLY BASIS.
[RULE 1303 (b)(2)-OFFSET]
11. OTHER THAN IN THE ENRICHED PRE-COMBUSTION CHAMBER, NATURAL GAS SHALL NOT BE USED IN THIS ENGINE TO GENERATE ELECTRICITY FOR DISTRIBUTION IN THE STATE GRID SYSTEM.
[RULE 1303 (b)(2)-OFFSET]
12. OTHER THAN IN THE ENRICHED PRE-COMBUSTION CHAMBER, NATURAL GAS SHALL ONLY BE FIRED IN THIS ENGINE TO PROVIDE ELECTRICITY TO THE SANITATION DISTRICTS OPERATED FACILITIES AT THE PUENTE HILLS LANDFILL, SAN JOSE CREEK WATER RECLAMATION PLANT AND THE JOINT ADMINISTRATION OFFICE.
[RULE 1303 (b)(2)-OFFSET]
13. SAMPLING PORTS SHALL BE PROVIDED IN THE ENGINE EXHAUST DUCT, 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AND SHALL CONSIST OF TWO PROPERLY SIZED WELD NIPPLES WITH PLUGS, 90 DEGREES APART. AN EQUIVALENT METHOD FOR EMISSION SAMPLING MAY BE USED UPON APPROVAL OF THE AQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE SUPPLIED BY THE APPLICANT.
[RULE 217]

FACILITY PERMIT TO CONSTRUCT LA CO., SANITATION DIST

18. ALL RECORDS, SUCH AS FUEL USAGE, MAINTENANCE RECORDS AND PERFORMANCE TEST RESULTS, SHALL BE MAINTAINED FOR FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303 (b)(2)-OFFSET]
19. THIS ENGINE SHALL NOT BE OPERATED IN SUCH A MANNER AS TO INTERFERE WITH THE OWNER'S/OPERATOR'S ABILITY TO COMPLY WITH AQMD RULE 1150.1 OR ANY OTHER AQMD RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]

Emissions and Requirements:

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

NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR63 SUBPART AAAA
NMOC: 196 PPMV@ 15% O2, RULE 1303 (a)(1)-BACT (AS METHANE, 1 - HR AVG.)
NMOC: 59 PPMV@ 15% O2, RULE 1110.2 (ECF = 1.47)
NOX: 51 PPMV@ 15% O2, RULE 1303 (a)(1)-BACT (1 - HR AVG.)
NOX: 53 PPMV@ 15% O2, RULE 1110.2 (ECF = 1.47)
CO: 351 PPMV@ 15% O2, RULE 1303 (a)(1)-BACT (1 - HR AVG.)
CO: 2000 PPMV@ 15% O2, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO CONSTRUCT LA CO., SANITATION DIST

14. APPLICANT SHALL CONDUCT ANNUAL PERFORMANCE TEST OF THE ENGINE IN ACCORDANCE WITH AQMD TEST PROCEDURES AND FURNISH THE AQMD A WRITTEN RESULT OF SUCH PERFORMANCE TEST. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. A TEST PROTOCOL SHALL BE SUBMITTED FOR APPROVAL AT LEAST 60 DAYS PRIOR TO TESTING.

THE PERFORMANCE TEST SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO A TEST OF THE INLET AND EXHAUST GASES, FOR THE FOLLOWING:

- A. METHANE
- B. TOTAL NON-METHANE HYDROCARBONS
- C. OXIDES OF NITROGEN (EXHAUST ONLY)
- D. CARBON MONOXIDE (EXHAUST ONLY)
- E. PARTICULATES (EXHAUST ONLY)
- F. TOTAL SULFUR COMPOUNDS AS H₂S (INLET ONLY)
- G. FLOW RATE
- H. OXYGEN
- I. NITROGEN
- J. CARBON DIOXIDE
- K. MOISTURE
- L. TEMPERATURE
- M. TOXIC AIR CONTAMINANTS INCLUDING BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1,1-DICHLOROETHANE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE AND XYLENES (EXHAUST ONLY).

[RULE 1303 (b)(2)-OFFSET, 1401]

15. THE EMISSIONS FROM THE ENGINE SHALL NOT EXCEED THE FOLLOWING:

| AIR CONTAMINANT | LBS/HR |
|--------------------------|--------|
| NON-METHANE HYDROCARBONS | 1.69 |
| NITROGEN OXIDE | 4.79 |
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| PARTICULATES | 1.58 |

[RULE 1303 (b)(2)-OFFSET]

16. NON-METHANE HYDROCARBON EMISSIONS SHALL NOT EXCEED 20 PPMV AT 3% O₂ AS HEXANE, UNLESS THE EMISSIONS HAVE BEEN REDUCED BY AT LEAST 98% BY WEIGHT ACROSS THE ENGINE.

[RULE 1150.1]

17. A CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST CONCENTRATION FOR NO_x AND O₂ ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO_x CONCENTRATION TO A CORRECTED NO_x CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF AQMD RULE 218.

[RULE 218]