

FACILITY PERMIT TO CONSTRUCT SUNSHINE CANYON LANDFILL

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 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.

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PERMITTED EQUIPMENT LIST

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

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NOTE: ANY APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT AND/OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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PERMIT TO CONSTRUCT/OPERATE

Permit No. TBD
A/N 537983

Equipment Description:

ALTERATION TO A LANDFILL GAS FLARING SYSTEM NO. 1, PERMIT NO. G17676 CONSISTING OF:

1. CONDENSATE KNOCKOUT DRUM, 6'-0" DIA. X 12'-0" H. SEAM TO SEAM.
2. THREE BLOWERS, ONE LAMSON MODEL NO. 862000020 GB, 40 H.P., ONE LAMSON MODEL NO. 86200200GB, 40 H.P., ONE GARDNER DENVER MODEL NO. 860, 3000 SCFM, 75 H.P.
3. DRY SCRUBBER, PEERLESS, 3'-0" DIA. X 10'-6" H.
4. FLARE, MCGILL, MODEL NO. EGF-125, 13'-0" DIA. X 50'-0" H. WITH A MULTI-JET BURNER, PROPANE GAS PILOT, ELECTRIC IGNITER, UV FLAME SENSOR, AUTOMATIC SHUTDOWN AND ALARM SYSTEM, AUTOMATIC COMBUSTION AIR REGULATING SYSTEM AND TEMPERATURE CONTROLLER.
5. LANDFILL GAS FLOW METER AND RECORDER.

BY REMOVAL AND REPLACEMENT OF TWO BLOWERS IN ITEM NO. 2:

2. THREE BLOWERS, ONE OPTIONAL LAMSON MODEL NO. 862000020 GB, 40 H.P., ONE LAMSON MODEL NO. 86200200GB, 40 H.P., ONE GARDNER DENVER MODEL NO. 860, 3000 SCFM, 75 H.P. AND TWO GARDNER DENVER MODEL NO. 1405, 200 H.P. EACH.

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. A CONTINUOUS TEMPERATURE INDICATOR AND RECORDER TO MEASURE AND RECORD THE GAS TEMPERATURE (IN DEGREES F) IN THE FLARE STACK SHALL BE OPERATED WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (a)(1)-BACT, 40CFR 60.756(b)(1)]

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5. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1600 DEGREES F., AS MONITORED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK EXCEPT THAT A TEMPERATURE DROP OF UP TO 100 DEGREES F. IS ALLOWED FOR NO MORE THAN THREE MINUTES IN ANY ONE HOUR.
[RULE 1303 (a)(1)-BACT]
6. THE FLOW INDICATING AND RECORDING DEVICE SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE GAS FLOW RATE (IN SCFM) TO THE FLARE AT LEAST EVERY 15 MINUTES AND SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (b)(2)-OFFSET, 40CFR 60.756(b)(2)(i)]
7. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 4167 DRY STANDARD CUBIC FEET PER MINUTE (6.0 MILLION DRY STANDARD CUBIC FEET PER DAY).
[RULE 1303 (b)(2)-OFFSET]
8. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
RULE 1303 (b)(2)-OFFSET]
9. THE FOLLOWING FLARE FAILURE ALARMS, WHICH SHALL INCLUDE AN AUTOMATIC NOTIFICATION SYSTEM AND AN AUTOMATIC BLOWER AND LANDFILL GAS INLET VALVE SHUT-OFF SYSTEM, SHALL BE MAINTAINED:
 - F. FLARE FLAME OUT
 - G. LOW FLARE STACK TEMPERATURE
 - H. HIGH FLARE STACK TEMPERATURE
 - I. HIGH BLOWER DISCHARGE TEMPERATURE
 - J. EXCESSIVE VIBRATION[RULE 1303 (a)(1)-BACT]
10. THE FLARE FAILURE ALARMS SHALL BE TESTED AND THE RESULTS RECORDED ONCE EVERY SIX MONTHS.
[RULE 217]
11. THE FLAME IN THE FLARE SHALL REMAIN AT LEAST TWO FEET BELOW THE TEMPERATURE SENSOR AT ALL TIMES.
[RULE 1303 (a)(1)-BACT]
12. A SET OF FOUR SAMPLING PORTS SHALL BE MAINTAINED IN THE FLARE STACK AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE STACK 90 DEGREES APART. EACH SAMPLING PORT SHALL CONSIST OF A FOUR INCH COUPLING WITH CAP. ADEQUATE AND SAFE ACCESS TO ALL TEST PORTS SHALL BE PROVIDED WITHIN FOUR HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.
[RULE 217]
13. A SAMPLE PORT SHALL BE MAINTAINED IN THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]

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14. THE SKIN TEMPERATURE OF THE FLARE STACK WITHIN FOUR FEET OF THE SOURCE TEST PORTS SHALL NOT EXCEED 250 DEGREES F. A HEAT SHIELD, IF REQUIRED TO MEET THE TEMPERATURE REQUIREMENT, SHALL BE IN PLACE WHENEVER A SOURCE TEST IS CONDUCTED BY THE AQMD.
[RULE 217]
15. EMISSIONS RESULTING FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:
- | POLLUTANT | LBS/DAY |
|-----------|---------|
| ROG | 23 |
| NOX | 174 |
| SOX | 107 |
| CO | 104 |
| PM10 | 41 |
- [RULE 1303 (b)(2)-OFFSET]
16. LANDFILL GAS ENTERING THE FLARE SHALL BE ANALYZED WEEKLY FOR HEATING VALUE AND METHANE CONCENTRATION. RESULTS SHALL BE RECORDED AND PROVIDED TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]
17. THE HEAT RELEASE OF LANDFILL GAS BURNED IN THIS FLARE SHALL NOT EXCEED 105 MILLION BTU/HR.
[RULE 1303 (b)(2)-OFFSET]
18. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303 (b)(2)-OFFSET]
19. THE EXHAUST TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,600 (FOR ALL FLARES) DEGREES FAHRENHEIT AVERAGED OVER 15-MINUTE PERIOD WHENEVER THE EQUIPMENT IS IN OPERATION, EXCLUDING START UP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1,600 DEGREES F IS ACHIEVED, NOT TO EXCEED 30 MINUTES. SHUTDOWN IS THE PERIOD FROM WHEN THE GAS VALVE BEGINS TO BE SHUT AND COMPLETELY SHUTS OFF, NOT TO EXCEED 30 MINUTES.
- EACH FLARE SHALL BE EQUIPPED WITH A CONTINUOUS EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7 AND THE RECORDING SYSTEM SHALL BE IN OPERATION WHEN THE FLARE IS OPERATING. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A 15-MINUTE AVERAGE TEMPERATURE OF LESS THAN 1,600 DEGREES FAHRENHEIT OCCURS DURING OPERATION EXCLUDING START UP AND SHUTDOWN. THE EXHAUST TEMPERATURE

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SHALL BE RECORDED ATLEAST ONCE IN EVERY 15-MINUTE PERIOD. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURED OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 1,600 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATION EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[40CFR PART 64]

20. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETED BY APRIL 26, 2013 UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 204]

Emissions and Requirements:

21. NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR60 SUBPART WWW, 40CFR63 SUBPART AAAA
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/DSCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

Periodic Monitoring:

22. APPLICANT SHALL CONDUCT PERFORMANCE TEST OF THE FLARE IN ACCORDANCE WITH AQMD TEST PROCEDURES AND FURNISH THE AQMD A WRITTEN RESULT OF SUCH PERFORMANCE TEST WITHIN 60 DAYS AFTER TESTING. 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. THE PERFORMANCE TEST SHALL BE CONDUCTED AT THE EXHAUST OF THE FLARE ONCE EVERY FIVE YEARS FOR NOX, CO AND PM.
[RULE 3004]

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PERMIT TO CONSTRUCT/OPERATE

Permit No. G17679
A/N 527411

Equipment Description:

ALTERATION TO LANDFILL GAS FLARING SYSTEM NO. 3. PERMIT NO. G17679 CONSISTING OF:

1. CONDENSATE KNOCKOUT DRUM, 3'-6" DIA. X 10'-0" SEAM TO SEAM HEIGHT, WITH A MIST ELIMINATOR.
2. CONDENSATE PUMP, 1 H.P., 3 GPM, SERVING A CONDENSATE KNOCKOUT DRUM AND A PARTICULATE FILTER.
3. THREE BLOWERS, LAMPSON, MODEL 862000020GB, EACH 40 H.P., ONE BLOWER FOR STANDBY, VENTING THE LANDFILL GAS COLLECTION SYSTEM.
4. PARTICULATE FILTER, PEERLESS, 3'-0" DIA. X 10'-6" H.
5. TWO FLAME ARRESTORS, ONE FOR LANDFILL GAS AND ONE FOR VAPORS FROM THE LEACHATE TREATMENT SYSTEM.
6. FLARE, MCGILL, MODEL NO. EGF-125, 13'-0" DIA. X 50'-0" H. WITH A MULTI-JET BURNER, PROPANE GAS PILOT, ELECTRIC IGNITER, UV FLAME SENSOR, AUTOMATIC SHUTDOWN AND ALARM SYSTEM, AUTOMATIC COMBUSTION AIR REGULATING SYSTEM AND TEMPERATURE CONTROLLER.
7. LANDFILL GAS FLOW METER WITH A RECORDER.
8. LANDFILL GAS EMERGENCY SHUT-OFF VALVE.

BY REMOVAL AND REPLACEMENT OF TWO BLOWERS IN ITEM NO. 3:

3. THREE BLOWERS, ONE OPTIONAL LAMSON MODEL NO. 862000020 GB, 40 H.P., ONE BLOWER FOR STANDBY, VENTING THE LANDFILL GAS COLLECTION SYSTEM. AND TWO GARDNER DENVER MODEL NO. 1405, 200 H.P. EACH.

Conditions:

1. OPERATION OF TIES 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.

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[RULE 204]

4. A SET OF FOUR SAMPLING PORTS SHALL BE INSTALLED IN THE FLARE SHROUD AND LOCATED AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD. EACH PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH PLUG. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED WITHIN 24 HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.
[RULE 217]
5. A SAMPLING PORT SHALL BE MAINTAINED AT THE INLET GAS LINE TO THE FLARE TO ALLOW LANDFILL GAS SAMPLING AND FLOW MEASUREMENT.
[RULE 217, 431.1, 1150.1]
6. THE FLARE SHALL BE EQUIPPED WITH A CONTINUOUS TEMPERATURE INDICATOR AND RECORDER WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDER SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION. THE THERMOCOUPLE USED TO MEASURE THE TEMPERATURE SHALL BE AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD AND AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER.
[RULE 1150.1, 1303 (a)(1)-BACT, 40CFR 60.756(b)(1)]
7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1600 DEGREES F, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303 (a)(1)-BACT]
8. THE SKIN TEMPERATURE OF THE FLARE SHROUD WITHIN FOUR FEET OF ALL THE SOURCE TEST PORTS SHALL NOT EXCEED 250 DEGREES F. IF A HEAT SHIELD IS REQUIRED TO MEET THIS REQUIREMENT, ITS DESIGN SHALL BE APPROVED BY THE AQMD PRIOR TO CONSTRUCTION. THE HEAT SHIELD, IF REQUIRED TO MEET THE TEMPERATURE REQUIREMENT, SHALL BE IN PLACE WHENEVER A SOURCE TEST IS CONDUCTED BY THE AQMD.
[RULE 217]
9. A SUFFICIENT NUMBER OF SIGHT GLASS WINDOWS SHALL BE MAINTAINED IN THE FLARE TO ALLOW VISUAL INSPECTION OF THE FLAME WITHIN THE FLARE AT ALL TIMES. PERMANENT AND SAFE ACCESS SHALL BE PROVIDED FOR ALL SIGHT GLASS WINDOWS.
[RULE 217, 1303 (a)(1)-BACT]
10. A FLOW INDICATOR AND RECORDER SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE GAS FLOW RATE (IN SCFM) TO THE FLARE AT LEAST EVERY 15 MINUTES AND SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (b)(2)-OFFSET, 40CFR 60.756(b)(2)(i)]
11. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 4,167 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303 (b)(2)-OFFSET]
12. EMISSIONS RESULTING FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:

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POLLUTANT	LBS/HOUR
NOX	6.0
SOX	3.8
CO	4.1
PM	1.6
ROG	0.63

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

13. THE OWNER OR OPERATOR SHALL CONDUCT A TEST ANNUALLY OR PER THE APPROVED 1150.1 COMPLIANCE PLAN. THE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AQMD APPROVED TEST PROCEDURES AND WRITTEN TEST RESULTS SHALL BE FURNISHED TO THE AQMD WITHIN SIXTY DAYS AFTER TESTING. WRITTEN NOTICE OF THE TEST SHALL BE PROVIDED TO THE AQMD THIRTY DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. IN ADDITION TO THE TEST REQUIREMENTS OF RULE 1150.1 AND THE APPROVED 1150.1 COMPLIANCE PLAN FOR NONMETHANE ORGANIC COMPOUNDS AND TOXIC COMPOUNDS, THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE FLARE FOR:

- J. LANDFILL GAS COMPOSITION AND HEATING VALUE (INLET)
- K. LANDFILL GAS FLOW RATE, SCFM (INLET)
- L. TOTAL SULFUR COMPOUNDS AS H₂S, PPMV (INLET)
- M. TEMPERATURE, DEGREES F (EXHAUST)
- N. FLOW RATE, DSCFM (EXHAUST)
- O. NOX, LBS/HR (EXHAUST)
- P. SOX, LBS/HR (EXHAUST)
- Q. CO, LBS/HR (EXHAUST)
- R. TOTAL PARTICULATES, LBS/HR (EXHAUST)

THE TEST SHALL BE CONDUCTED AT THE MAXIMUM FLOW RATE AVAILABLE AT THE TIME OF THE TEST BUT NOT TO EXCEED THE FLOW RATE ALLOWED BY THIS PERMIT.

[RULE 1303 (a)(1)-BACT]

14. THE FOLLOWING FLARE FAILURE ALARMS WHICH SHALL INCLUDE AN AUTOMATIC NOTIFICATION SYSTEM, AN AUTOMATIC BLOWER AND A LANDFILL GAS SUPPLY VALVE SHUT-OFF SYSTEM APPROVED BY THE AQMD, SHALL BE MAINTAINED AND TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED:

- F. FLARE FLAME OUT
- G. LOW FLARE STACK TEMPERATURE
- H. HIGH FLARE STACK TEMPERATURE
- I. EXCESSIVE VIBRATION
- J. LOW BLOWER DISCHARGE PRESSURE.

[RULE 1303 (a)(1)-BACT]

15. A PRESSURE SENSING DEVICE WITH AN AUTOMATIC BLOWER SHUT OFF SYSTEM SHALL BE MAINTAINED IN THE BLOWER DISCHARGE LINE TO DETECT PRESSURE DROP DUE TO LANDFILL GAS LEAKS AND SHALL BE TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED.

[RULE 1303 (a)(1)-BACT]

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16. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE PARTICULATE FILTER.
[RULE 1303 (a)(1)-BACT]
17. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE FLAME ARRESTOR.
[RULE 1303 (a)(1)-BACT]
18. THE HEAT RELEASE OF LANDFILL GAS BURNED IN THIS FLARE SHALL NOT EXCEED 105 MILLION BTU/HR.
[RULE 1303 (b)(2)-OFFSET]
19. LANDFILL GAS ENTERING THE FLARE SHALL BE ANALYZED WEEKLY FOR HEATING VALUE AND METHANE CONCENTRATION. RESULTS SHALL BE RECORDED AND PROVIDED TO THE AQMD UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]
20. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303 (b)(2)-OFFSET]
21. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST. A RECORD OF THE HOURS OF FLARE OPERATION SHALL BE INCLUDED.
[RULE 1303 (b)(2)-OFFSET]
22. ANY BREAKDOWN OR MALFUNCTION OF THE LANDFILL GAS FLARE SYSTEM RESULTING IN THE EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD WITHIN ONE HOUR AFTER OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 430]
23. THE EXHAUST TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,600 (FOR ALL FLARES) DEGREES FAHRENHEIT AVERAGED OVER 15-MINUTE PERIOD WHENEVER THE EQUIPMENT IS IN OPERATION, EXCLUDING START UP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1,600 DEGREES F IS ACHIEVED, NOT TO EXCEED 30 MINUTES. SHUTDOWN IS THE PERIOD FROM WHEN THE GAS VALVE BEGINS TO BE SHUT AND COMPLETELY SHUTS OFF, NOT TO EXCEED 30 MINUTES.

EACH FLARE SHALL BE EQUIPPED WITH A CONTINUOUS EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7 AND THE RECORDING SYSTEM SHALL BE IN OPERATION WHEN THE FLARE IS OPERATING. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A 15-MINUTE AVERAGE TEMPERATURE OF LESS THAN 1,600 DEGREES FAHRENHEIT OCCURS

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DURING OPERATION EXCLUDING START UP AND SHUTDOWN. THE EXHAUST TEMPERATURE SHALL BE RECORDED ATLEAST ONCE IN EVERY 15-MINUTE PERIOD. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURED OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 1,600 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATION EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[40CFR PART 64]

Emissions and Requirements:

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

NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR60 SUBPART WWW, 40CFR63 SUBPART AAAA

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/DSCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

VOC: 0.006 LB/MMBTU, RULE 1303 - BACT/LAER

Periodic Monitoring:

25. APPLICANT SHALL CONDUCT PERFORMANCE TEST OF THE FLARE IN ACCORDANCE WITH AQMD TEST PROCEDURES AND FURNISH THE AQMD A WRITTEN RESULT OF SUCH PERFORMANCE TEST WITHIN 60 DAYS AFTER TESTING. 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. THE PERFORMANCE TEST SHALL BE CONDUCTED AT THE EXHAUST OF THE FLARE ONCE EVERY FIVE YEARS FOR NOX, CO AND PM.
[RULE 3004]

FACILITY PERMIT TO CONSTRUCT SUNSHINE CANYON LANDFILL

PERMIT TO CONSTRUCT/OPERATE

Permit No. G17678
A/N 527410

Equipment Description:

ALTERATION TO LANDFILL GAS FLARING SYSTEM NO. 8, PERMIT NO. G17678 CONSISTING OF:

1. CONDENSATE KNOCKOUT DRUM, 6'-0" DIA. X 10'-0" SEAM TO SEAM HEIGHT, WITH A MIST ELIMINATOR.
2. CONDENSATE PUMP, 0.75 H.P., 3 GPM, SERVING A CONDENSATE KNOCKOUT DRUM AND A PARTICULATE FILTER.
3. THREE BLOWERS, GARDNER DENVER, MODEL NO.S 86200024GB, 86200024000GB, & 862000020GB EACH 40 H.P., ONE BLOWER FOR STANDBY, VENTING THE LANDFILL GAS COLLECTION SYSTEM.
4. PARTICULATE FILTER, PEERLESS, 3'-0' DIA. X 10'-6" H.
5. ONE FLAME ARRESTOR FOR LANDFILL GAS.
6. FLARE, MCGILL, MODEL NO. EGF-125, 13'-0' DIA. X 50'-0" H. WITH A MULTI-JET BURNER, PROPANE GAS PILOT, ELECTRIC IGNITER, UV FLAME SENSOR, AUTOMATIC SHUTDOWN AND ALARM SYSTEM, AUTOMATIC COMBUSTION AIR REGULATING SYSTEM AND TEMPERATURE CONTROLLER.
7. LANDFILL GAS FLOW METER WITH A RECORDER.
8. LANDFILL GAS EMERGENCY SHUT-OFF VALVE.

BY REMOVAL AND REPLACEMENT OF TWO BLOWERS IN ITEM NO. 3:

3. ~~THREE BLOWERS, ONE OPTIONAL GARDNER DENVER, MODEL NO.S 86200024GB, 86200024000GB, & 862000020GB EACH 40 H.P., ONE BLOWER FOR STANDBY, VENTING THE LANDFILL GAS COLLECTION SYSTEM. AND TWO GARDNER DENVER MODEL NO. 1405, 200 H.P. EACH.~~

Conditions:

1. OPERATION OF TIES 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]

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3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. A SET OF FOUR SAMPLING PORTS SHALL BE INSTALLED IN THE FLARE SHROUD AND LOCATED AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD. EACH PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH PLUG. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED WITHIN 24 HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.
[RULE 217]
5. A SAMPLING PORT SHALL BE MAINTAINED AT THE INLET GAS LINE TO THE FLARE TO ALLOW LANDFILL GAS SAMPLING AND FLOW MEASUREMENT.
[RULE 217, 431.1, 1150.1]
6. THE FLARE SHALL BE EQUIPPED WITH A CONTINUOUS TEMPERATURE INDICATOR AND RECORDER WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDER SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION. THE THERMOCOUPLE USED TO MEASURE THE TEMPERATURE SHALL BE AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD AND AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER.
[RULE 1150.1, 1303 (a)(1)-BACT, 40CFR 60.756(b)(1)]
7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1600 DEGREES F, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303 (a)(1)-BACT]
8. THE SKIN TEMPERATURE OF THE FLARE SHROUD WITHIN FOUR FEET OF ALL THE SOURCE TEST PORTS SHALL NOT EXCEED 250 DEGREES F. IF A HEAT SHIELD IS REQUIRED TO MEET THIS REQUIREMENT, ITS DESIGN SHALL BE APPROVED BY THE AQMD PRIOR TO CONSTRUCTION. THE HEAT SHIELD, IF REQUIRED TO MEET THE TEMPERATURE REQUIREMENT, SHALL BE IN PLACE WHENEVER A SOURCE TEST IS CONDUCTED BY THE AQMD.
[RULE 217]
9. A SUFFICIENT NUMBER OF SIGHT GLASS WINDOWS SHALL BE MAINTAINED IN THE FLARE TO ALLOW VISUAL INSPECTION OF THE FLAME WITHIN THE FLARE AT ALL TIMES. PERMANENT AND SAFE ACCESS SHALL BE PROVIDED FOR ALL SIGHT GLASS WINDOWS.
[RULE 217, 1303(a)(1)-BACT]
10. A FLOW INDICATOR AND RECORDER SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE GAS FLOW RATE (IN SCFM) TO THE FLARE AT LEAST EVERY FIFTEEN MINUTES AND SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (b)(2)-OFFSET, 40CFR 60.756(b)(2)(i)]
11. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 4,167 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303 (b)(2)-OFFSET]

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12. EMISSIONS RESULTING FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS/HOUR
NOX	6.3
SOX	3.8
CO	3.7
PM	0.64
ROG	0.63

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

13. THE OWNER OR OPERATOR SHALL CONDUCT A TEST ANNUALLY OR PER THE APPROVED 1150.1 COMPLIANCE PLAN. THE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AQMD APPROVED TEST PROCEDURES AND WRITTEN TEST RESULTS SHALL BE FURNISHED TO THE AQMD WITHIN SIXTY DAYS AFTER TESTING. WRITTEN NOTICE OF THE TEST SHALL BE PROVIDED TO THE AQMD THIRTY DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. IN ADDITION TO THE TEST REQUIREMENTS OF RULE 1150.1 AND THE APPROVED 1150.1 COMPLIANCE PLAN FOR NONMETHANE ORGANIC COMPOUNDS AND TOXIC COMPOUNDS, THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE FLARE FOR:

- J. LANDFILL GAS COMPOSITION AND HEATING VALUE (INLET)
- K. LANDFILL GAS FLOW RATE, SCFM (INLET)
- L. TOTAL SULFUR COMPOUNDS AS H₂S, PPMV (INLET)
- M. TEMPERATURE, DEGREES F (EXHAUST)
- N. FLOW RATE, DSCFM (EXHAUST)
- O. NOX, LBS/HR (EXHAUST)
- P. SOX, LBS/HR (EXHAUST)
- Q. CO, LBS/HR (EXHAUST)
- R. TOTAL PARTICULATES, LBS/HR (EXHAUST)

THE TEST SHALL BE CONDUCTED AT THE MAXIMUM FLOW RATE AVAILABLE AT THE TIME OF THE TEST BUT NOT TO EXCEED THE FLOW RATE ALLOWED BY THIS PERMIT.

[RULE 1303 (b)(2)-OFFSET, 3004(a)(4)-PERIODIC MONITORING]

14. THE FOLLOWING FLARE FAILURE ALARMS WHICH SHALL INCLUDE AN AUTOMATIC NOTIFICATION SYSTEM, AN AUTOMATIC BLOWER AND A LANDFILL GAS SUPPLY VALVE SHUT-OFF SYSTEM APPROVED BY THE AQMD, SHALL BE MAINTAINED AND TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED:

- F. FLARE FLAME OUT
- G. LOW FLARE STACK TEMPERATURE
- H. HIGH FLARE STACK TEMPERATURE
- I. EXCESSIVE VIBRATION
- J. LOW BLOWER DISCHARGE PRESSURE.

[RULE 1303 (a)(1)-BACT]

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15. A PRESSURE SENSING DEVICE WITH AN AUTOMATIC BLOWER SHUT OFF SYSTEM SHALL BE MAINTAINED IN THE BLOWER DISCHARGE LINE TO DETECT PRESSURE DROP DUE TO LANDFILL GAS LEAKS AND SHALL BE TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303 (a)(1)-BACT]
16. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE PARTICULATE FILTER.
[RULE 1303 (a)(1)-BACT]
17. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE FLAME ARRESTOR.
[RULE 1303 (a)(1)-BACT]
18. THE HEAT RELEASE OF LANDFILL GAS BURNED IN THIS FLARE SHALL NOT EXCEED 105 MILLION BTU/HR.
[RULE 1303 (b)(2)-OFFSET]
19. LANDFILL GAS ENTERING THE FLARE SHALL BE ANALYZED WEEKLY FOR HEATING VALUE AND METHANE CONCENTRATION. RESULTS SHALL BE RECORDED AND PROVIDED TO THE AQMD UPON REQUEST.
[RULE 1303 (b)(2)- OFFSET]
20. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303 (b)(2)- OFFSET]
21. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST. A RECORD OF THE HOURS OF FLARE OPERATION SHALL BE INCLUDED.
[RULE 1150.1, 1303 (b)(2)- OFFSET]
22. ANY BREAKDOWN OR MALFUNCTION OF THE LANDFILL GAS FLARE SYSTEM RESULTING IN THE EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD WITHIN ONE HOUR AFTER OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 430]
23. THE EXHAUST TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,600 (FOR ALL FLARES) DEGREES FAHRENHEIT AVERAGED OVER 15-MINUTE PERIOD WHENEVER THE EQUIPMENT IS IN OPERATION, EXCLUDING START UP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1,600 DEGREES F IS ACHIEVED, NOT TO EXCEED 30 MINUTES. SHUTDOWN IS THE PERIOD FROM WHEN THE GAS VALVE BEGINS TO BE SHUT AND COMPLETELY SHUTS OFF, NOT TO EXCEED 30 MINUTES.

EACH FLARE SHALL BE EQUIPPED WITH A CONTINUOUS EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7 AND THE RECORDING SYSTEM SHALL BE IN OPERATION WHEN THE FLARE IS OPERATING. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE

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MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A 15-MINUTE AVERAGE TEMPERATURE OF LESS THAN 1,600 DEGREES FAHRENHEIT OCCURS DURING OPERATION EXCLUDING START UP AND SHUTDOWN. THE EXHAUST TEMPERATURE SHALL BE RECORDED ATLEAST ONCE IN EVERY 15-MINUTE PERIOD. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURED OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 1,600 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATION EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[40CFR PART 64]

Emissions and Requirements:

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

NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR60 SUBPART WWW, 40CFR63 SUBPART AAAA.

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/DSCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS