

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 construct and permits to operate at this facility:

Application Number	Permit to Operate Number	Equipment description	Page
577285	TBD, will supersede 571765 PC	Turbine Engine, #5 (\leq 50 MW) Landfill Gas	5
577286	TBD, will supersede 571767 PC	Turbine Engine, #4 (\leq 50 MW) Landfill Gas	10
577287	TBD, will supersede 571764 PC	Turbine Engine, #3 (\leq 50 MW) Landfill Gas	15
577288	TBD, will supersede 571763 PC	Turbine Engine, #2 (\leq 50 MW) Landfill Gas	20
577289	TBD, will supersede 571762 PC	Turbine Engine, #1 (\leq 50 MW) Landfill Gas	25

Note: 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)

Condition(s):

1. Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:
 - A. As dark or darker in shade as that designated no. 1 on the Ringlemann Chart, as published by the United States Bureau of Mines; or
 - B. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.[Rule 401]
2. The operator shall not use landfill gas (LFG) containing sulfur compounds in excess of 150 ppmv calculated as hydrogen sulfide averaged daily.
[Rule 431.1]
3. On or after June 1, 2004, a person shall not purchase any diesel fuel for stationary source application in the District, unless the fuel is low sulfur diesel for which the sulfur content shall not exceed 15 ppm by weight as supplied by the supplier.
[Rule 431.2]
4. Unless the LFG to energy facility has obtained approval of the EPA for meeting the LFG treatment definition and exemption criteria listed under 40 CFR §60.751 and air emissions standards under 40 CFR §60.752(b)(2)(iii)(C), the owner or operator of the municipal solid waste landfill gas (LFG) collection, control, or treatment system shall operate all stationary equipment in compliance with all applicable requirements of EPA 40 CFR Part 60, Subpart WWW, such as design specifications, equipment performance, emissions standards, monitoring of operations, reporting and record keeping requirements, etc.
[EPA Rule 40 CFR 60 Subpart WWW]
5. The owner or operator of the municipal solid waste landfill gas (LFG) collection, control, or treatment system shall operate all stationary equipment in compliance with all applicable requirements of EPA 40 CFR Part 63, Subpart AAAA, such as design specifications, equipment performance, emissions standards, monitoring of operations, reporting and record keeping requirements, etc.
[Gaseous Emissions 40 CFR 63 Subpart AAAA]
6. The operator shall comply with all applicable mitigation measures stipulated in the statement of findings, statement of overriding consideration, and mitigation monitoring plan document which is part of the SCAQMD Certified Final Environmental Impact Report for this facility. This condition shall only apply to equipment listed in Section-H of this facility permit.
[CA PRC CEQA, 11-23-1970]
7. The total landfill gas processed at this facility shall not exceed 311.4 mmBTU/hr (24-hour avg.). The operator shall determine the total heat input of the landfill gas at least once every eight hours of operation, and monitor the flow rate continuously. The operator shall maintain adequate records to demonstrate compliance with this condition.
[CA PRC CEQA, 11-23-1970]

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8. The operator shall monitor and record total volume of raw landfill gas processed by the LFG treatment and compression system, and monthly average H₂S concentration (ppmv) for the LFG. The operator shall calculate facility wide daily SO_x (as SO₂) emission rate, using LFG volume processed and H₂S concentration. All records required shall be kept on file to comply with this condition.
[Rule 204]
9. The facility wide total SO_x emission, as SO₂, shall not exceed 379.6 lbs per day.
[Rule 204]

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PERMIT TO OPERATE

Permit No. TBD
A/N 577285

Equipment Description:

Resource Recovery/Landfill Gas-to-Energy System consisting of:

1. Pretreated Landfill Gas (LFG) Supply.
2. Gas Turbine, No. 5, Solar, Mercury 50, landfill gas (LFG) fired, 61.0 mmBTU/hr, driving a nominal 4.9 megawatt (MW) electric generator.
3. Exhaust Stack, 4'- 7" Dia. X 26' - 6" high.

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 be operated by personnel properly trained in its operation.
[Rule 204]
4. This equipment shall be fired only with landfill gas except when propane is used to ignite the turbine during start-up.
[Rule 204]
5. A continuous flow indicating and recording device shall be installed and maintained in the landfill gas supply line to the gas turbine to measure and record the quantity of landfill gas (in scfm) supplied.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
6. The total heat input of landfill gas burned in the gas turbine shall not exceed 61.0 mmBTU/hr (HHV), based on a 24 -hour average. The operator shall monitor the total heat input rate of the landfill gas on a continuous basis. The owner or operator of this equipment shall install and maintain a remote notification system to notify the facility if an exceedance of 61.0 mmBTU/hr limit occurs.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4), Rule 1401]
7. If any of the five gas turbines has a total heat input rate of 57.7 mmBTU/hr (HHV) or greater, based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the table below.

The colorimetric tubes (Tubes) for analyzing H₂S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes

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shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 95	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	95 ≤ TS < 114	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	114 ≤ TS < 123	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 123	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

8. If all of the five gas turbines have less than a total heat input rate of 57.7 mmBTU/hr (HHV), based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the Sunshine Canyon Landfill (Facility Id 49111) Rule 431.1 Alternative Monitoring Plan (A/N 291681) and as shown in the table below.

The colorimetric tubes (Tubes) for analyzing H2S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 100	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	100 ≤ TS < 120	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	120 ≤ TS < 130	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 130	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

9. The operator shall synchronize all recording devices with respect to the time of day.
 [Rule 204]
10. The operator shall direct all landfill gas which is not burned in this equipment to another combustion or processing facility which is in full use, and can adequately process the volume of gas collected and which has been issued a valid permit by the SCAQMD.
 [Rule 1303(a) (1)-BACT]

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11. The operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction which results in emission of landfill gas shall be reported to the SCAQMD within one hour after occurrence or within one hour 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 402, 430]
12. The operator shall install and maintain an adequate number of sampling ports and welded nipples with caps in the exhaust stack and provide safe access to these sampling ports in accordance with Rule 217 and SCAQMD approval.
[Rule 217]
13. A continuous combustion temperature monitoring and recording system shall be maintained, to determine exhaust temperature of last power turbine (T7) and calculate the combustion chamber temperature (TPZ) per manufacturer's recommendations, pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. 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 SCAQMD or EPA approved method.
[40 CFR 64]
14. The combustion chamber temperature of last power turbine (T7) shall be recorded at least every 15 minutes, and the hourly average shall be computed from such data points. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.
[40 CFR 64]
15. All deviations shall be reported to the SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and condition nos. 22 and 23 in Section K of this permit. For the purpose of this condition, a deviation shall be defined as when the last power turbine (T7) exhaust temperature is less than 1100 degrees Fahrenheit or greater than 1300 degrees Fahrenheit, or as otherwise approved by SCAQMD, occurs averaged over one hour during operation, except during start up and shutdown events lasting for a maximum of one hour. Multiple start up and shutdown events can occur consecutively.
[40 CFR 64]
16. For each semi-annual reporting period specified in condition no. 23 in Section K, whenever a deviation occurs from the temperature, 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.
[40 CFR 64]
17. A semi-annual monitoring report shall be submitted to SCAQMD, which shall include but may not be limited to the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period.
[40 CFR 64]
18. The owner or operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the SCAQMD if an accumulation of deviations exceeds 5% 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 SCAQMD within 90 calendar days after the due date of the semi-annual monitoring report.
[40 CFR 64]

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19. The operator shall install, maintain, and operate a Continuous Emission Monitoring System (CEMS), which is approved by the Executive Officer, to measure the 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, dry, and results shall be continuously recorded.
[Rule 218, 1303(b) (1) Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
20. The operator shall conduct annual performance tests (within 45 days of anniversary of initial test), at maximum achievable load, in accordance with the approved test procedures. Written results of such performance tests shall be submitted within 60 days after testing. Written results of such performance tests shall be submitted within 60 days after testing. Notice shall be provided to the SCAQMD 10 days prior to the testing so that an observer may be present. All source testing and analytical methods shall be submitted to the SCAQMD for approval at least 30 days prior to start of the tests. The tests shall include, but may not be limited to, a test of the inlet landfill gas and the gas turbine exhaust for:
- A. Methane and Total Non-Methane Hydrocarbons (TNMHC)
 - B. Carbon Monoxide (Exhaust Only)
 - C. Oxides of Nitrogen (Exhaust Only)
 - D. Carbon Dioxide
 - E. Particulate Matter/PM10 (Exhaust Only)
 - F. C1 through C3 Sulfur Compounds and Total Reduced Sulfur, as H₂S (Speciated, Inlet Only)
 - G. Toxic Air Contaminants (TAC) including, but not limited to, Benzene, Chlorobenzene, 1, 2-Dichloroethane, 1, 1-Dichloroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1, 1, 1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers
 - H. Hydrochloric Acid (Exhaust Only)
 - I. Oxygen and Nitrogen
 - J. Moisture Content
 - K. Temperature
 - L. Flow Rate
 - M. Volatile Organic Compounds (VOC) Control Efficiency, wt. % (based on inlet and exhaust VOC)
 - N. kW Generated.

The report shall also present the emissions data in units of pounds per hour (lb/hr), pounds per million BTU (lb/mmBTU), and parts per million (ppmv) on a dry basis at 15% O₂ (CO, NO_x, TNMHC, and TAC), and the gas turbine's overall TNMHC destruction efficiency (wt. %). Total Particulate/PM10 shall be reported in gr/scf and lbs/hr. The report shall project the total daily SO₂ and HCl emissions based on the test results. In addition, the report shall provide gas turbine's demonstrated efficiency at full load, in BTU/kW-hr, corrected to the higher heating value (HHV) of the fuel.

[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 1150.1, 1401, 3004 (a) (4), 40 CFR Part 60 Subpart WWW]

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21. Emissions from the gas turbine shall not exceed the following:

Contaminant	lbs/day
CO	78.3
NOx (as NO2)	74.8
PM10	17.3
TNMOC (as CH4)	21.9
SOx (as SO2)	74.6

[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset]

22. Emission of oxides of nitrogen shall not exceed 12.5 ppmv, calculated at 15% O2, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
23. Emission of carbon monoxide shall not exceed 21.5 ppmv, calculated at 15% O2, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
24. All records shall be kept for a period of at least five years and shall be made available to SCAQMD personnel upon request.
[Rule 3004 (a) (4)]

Emissions and Requirements:

This equipment is subject to the applicable requirements of the following rules and regulations.

25. CO: 2000 ppmv, dry, 15 min. avg., Rule 407
CO: 21.5 ppmv, @ 15% O2, Rule 1303-BACT/LAER
NOx: 12.5 ppmv, @ 15% O2, Rule 1303-BACT/LAER
NOx: 96 ppmv, @ 15% O2, dry, or 5.5 lb/MWh, NSPS, 40CFR60 Subpart KKKK
PM: Combustion Contaminant, 0.1 grain/dscf of gas, calculated @ 12% CO2, averaged over 15 consecutive minutes, Rule 409.
NMOC: 10.5 ppmv, @ 15% O2, as methane, Rule 1303-BACT/LAER
NMOC: 20 ppmv, as hexane, @ 3% O2, dry OR 98% (by wt.) destruction efficiency, Rule 1150.1, 40 CFR60 Subpart WWW, 40 CFR 63 Subpart AAAA.
SOx: Based on maximum 150 ppmv H2S con. in LFG, Rule 431.1
SOx: Facility wide total SOx emission shall not exceed 379.6 lbs/day, from five gas turbines and a regeneration flare.
SOx: 0.90 lb/MWh or 0.15 lb/mmBTU, NSPS, 40 CFR 60 Subpart KKKK.
SOx: 0.2% Rule 53

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PERMIT TO OPERATE

Permit No. TBD
A/N 577286

Equipment Description:

Resource Recovery/Landfill Gas-to-Energy System consisting of:

1. Pretreated Landfill Gas (LFG) Supply.
2. Gas Turbine, No. 4, Solar, Mercury 50, landfill gas (LFG) fired, 61.0 mmBTU/hr, driving a nominal 4.9 megawatt (MW) electric generator.
3. Exhaust Stack, 4'- 7" Dia. X 26' - 6" high.

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 be operated by personnel properly trained in its operation.
[Rule 204]
4. This equipment shall be fired only with landfill gas except when propane is used to ignite the turbine during start-up.
[Rule 204]
5. A continuous flow indicating and recording device shall be installed and maintained in the landfill gas supply line to the gas turbine to measure and record the quantity of landfill gas (in scfm) supplied.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
6. The total heat input of landfill gas burned in the gas turbine shall not exceed 61.0 mmBTU/hr (HHV), based on a 24 -hour average. The operator shall monitor the total heat input rate of the landfill gas on a continuous basis. The owner or operator of this equipment shall install and maintain a remote notification system to notify the facility if an exceedance of 61.0 mmBTU/hr limit occurs.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4), Rule 1401]
7. If any of the five gas turbines has a total heat input rate of 57.7 mmBTU/hr (HHV) or greater, based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the table below.

The colorimetric tubes (Tubes) for analyzing H₂S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes

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shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 95	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	95 ≤ TS < 114	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	114 ≤ TS < 123	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 123	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

8. If all of the five gas turbines have less than a total heat input rate of 57.7 mMBTU/hr (HHV), based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the Sunshine Canyon Landfill (Facility Id 49111) Rule 431.1 Alternative Monitoring Plan (A/N 291681) and as shown in the table below.

The colorimetric tubes (Tubes) for analyzing H₂S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 100	- Quarterly using Method 307-91 - Monthly using Tubes
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Tier III	120 ≤ TS < 130	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 130	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

9. The operator shall synchronize all recording devices with respect to the time of day.
 [Rule 204]
10. The operator shall direct all landfill gas which is not burned in this equipment to another combustion or processing facility which is in full use, and can adequately process the volume of gas collected and which has been issued a valid permit by the SCAQMD.
 [Rule 1303(a) (1)-BACT]

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11. The operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction which results in emission of landfill gas shall be reported to the SCAQMD within one hour after occurrence or within one hour 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 402, 430]
12. The operator shall install and maintain an adequate number of sampling ports and welded nipples with caps in the exhaust stack and provide safe access to these sampling ports in accordance with Rule 217 and SCAQMD approval.
[Rule 217]
13. A continuous combustion temperature monitoring and recording system shall be maintained, to determine exhaust temperature of last power turbine (T7) and calculate the combustion chamber temperature (TPZ) per manufacturer's recommendations, pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. 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 SCAQMD or EPA approved method.
[40 CFR 64]
14. The combustion chamber temperature of last power turbine (T7) shall be recorded at least every 15 minutes, and the hourly average shall be computed from such data points. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.
[40 CFR 64]
15. All deviations shall be reported to the SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and condition nos. 22 and 23 in Section K of this permit. For the purpose of this condition, a deviation shall be defined as when the last power turbine (T7) exhaust temperature is less than 1100 degrees Fahrenheit or greater than 1300 degrees Fahrenheit, or as otherwise approved by SCAQMD, occurs averaged over one hour during operation, except during start up and shutdown events lasting for a maximum of one hour. Multiple start up and shutdown events can occur consecutively.
[40 CFR 64]
16. For each semi-annual reporting period specified in condition no. 23 in Section K, whenever a deviation occurs from the temperature, 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.
[40 CFR 64]
17. A semi-annual monitoring report shall be submitted to SCAQMD, which shall include but may not be limited to the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period.
[40 CFR 64]
18. The owner or operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the SCAQMD if an accumulation of deviations exceeds 5% 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 SCAQMD within 90 calendar days after the due date of the semi-annual monitoring report.
[40 CFR 64]

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19. The operator shall install, maintain, and operate a Continuous Emission Monitoring System (CEMS), which is approved by the Executive Officer, to measure the 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, dry, and results shall be continuously recorded.
[Rule 218, 1303(b) (1) Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
20. The operator shall conduct annual performance tests (within 45 days of anniversary of initial test), at maximum achievable load, in accordance with the approved test procedures. Written results of such performance tests shall be submitted within 60 days after testing. Written results of such performance tests shall be submitted within 60 days after testing. Notice shall be provided to the SCAQMD 10 days prior to the testing so that an observer may be present. All source testing and analytical methods shall be submitted to the SCAQMD for approval at least 30 days prior to start of the tests. The tests shall include, but may not be limited to, a test of the inlet landfill gas and the gas turbine exhaust for:
- A. Methane and Total Non-Methane Hydrocarbons (TNMHC)
 - B. Carbon Monoxide (Exhaust Only)
 - C. Oxides of Nitrogen (Exhaust Only)
 - D. Carbon Dioxide
 - E. Particulate Matter/PM10 (Exhaust Only)
 - F. C1 through C3 Sulfur Compounds and Total Reduced Sulfur, as H₂S (Speciated, Inlet Only)
 - G. Toxic Air Contaminants (TAC) including, but not limited to, Benzene, Chlorobenzene, 1, 2-Dichloroethane, 1, 1-Dichloroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1, 1, 1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers
 - H. Hydrochloric Acid (Exhaust Only)
 - I. Oxygen and Nitrogen
 - J. Moisture Content
 - K. Temperature
 - L. Flow Rate
 - M. Volatile Organic Compounds (VOC) Control Efficiency, wt. % (based on inlet and exhaust VOC)
 - N. kW Generated.

The report shall also present the emissions data in units of pounds per hour (lb/hr), pounds per million BTU (lb/mmBTU), and parts per million (ppmv) on a dry basis at 15% O₂ (CO, NO_x, TNMHC, and TAC), and the gas turbine's overall TNMHC destruction efficiency (wt. %). Total Particulate/PM10 shall be reported in gr/scf and lbs/hr. The report shall project the total daily SO₂ and HCl emissions based on the test results. In addition, the report shall provide gas turbine's demonstrated efficiency at full load, in BTU/kW-hr, corrected to the higher heating value (HHV) of the fuel.

[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 1150.1, 1401, 3004 (a) (4), 40 CFR Part 60 Subpart WWW]

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21. Emissions from the gas turbine shall not exceed the following:

Contaminant	lbs/day
CO	78.3
NOx (as NO ₂)	74.8
PM ₁₀	17.3
TNMOC (as CH ₄)	21.9
SOx (as SO ₂)	74.6

[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset]

22. Emission of oxides of nitrogen shall not exceed 12.5 ppmv, calculated at 15% O₂, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
23. Emission of carbon monoxide shall not exceed 21.5 ppmv, calculated at 15% O₂, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
24. All records shall be kept for a period of at least five years and shall be made available to SCAQMD personnel upon request.
[Rule 3004 (a) (4)]

Emissions and Requirements:

This equipment is subject to the applicable requirements of the following rules and regulations.

25. CO: 2000 ppmv, dry, 15 min. avg., Rule 407
CO: 21.5 ppmv, @ 15% O₂, Rule 1303-BACT/LAER
NOx: 12.5 ppmv, @ 15% O₂, Rule 1303-BACT/LAER
NOx: 96 ppmv, @ 15% O₂, dry, or 5.5 lb/MWh, NSPS, 40CFR60 Subpart KKKK
PM: Combustion Contaminant, 0.1 grain/dscf of gas, calculated @ 12% CO₂, averaged over 15 consecutive minutes, Rule 409.
NMOC: 10.5 ppmv, @ 15% O₂, as methane, Rule 1303-BACT/LAER
NMOC: 20 ppmv, as hexane, @ 3% O₂, dry OR 98% (by wt.) destruction efficiency, Rule 1150.1, 40 CFR60 Subpart WWW, 40 CFR 63 Subpart AAAA.
SOx: Based on maximum 150 ppmv H₂S con. in LFG, Rule 431.1
SOx: Facility wide total SOx emission shall not exceed 379.6 lbs/day, from five gas turbines and a regeneration flare.
SOx: 0.90 lb/MWh or 0.15 lb/mmBTU, NSPS, 40 CFR 60 Subpart KKKK.
SOx: 0.2% Rule 53

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

PERMIT TO OPERATE

Permit No. TBD
A/N 577287

Equipment Description:

Resource Recovery/Landfill Gas-to-Energy System consisting of:

1. Pretreated Landfill Gas (LFG) Supply.
2. Gas Turbine, No. 3, Solar, Mercury 50, landfill gas (LFG) fired, 61.0 mmBTU/hr, driving a nominal 4.9 megawatt (MW) electric generator.
3. Exhaust Stack, 4' - 7" Dia. X 26' - 6" high.

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 be operated by personnel properly trained in its operation.
[Rule 204]
4. This equipment shall be fired only with landfill gas except when propane is used to ignite the turbine during start-up.
[Rule 204]
5. A continuous flow indicating and recording device shall be installed and maintained in the landfill gas supply line to the gas turbine to measure and record the quantity of landfill gas (in scfm) supplied.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
6. The total heat input of landfill gas burned in the gas turbine shall not exceed 61.0 mmBTU/hr (HHV), based on a 24 -hour average. The operator shall monitor the total heat input rate of the landfill gas on a continuous basis. The owner or operator of this equipment shall install and maintain a remote notification system to notify the facility if an exceedance of 61.0 mmBTU/hr limit occurs.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4), Rule 1401]
7. If any of the five gas turbines has a total heat input rate of 57.7 mmBTU/hr (HHV) or greater, based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the table below.

The colorimetric tubes (Tubes) for analyzing H₂S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes

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shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 95	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	95 ≤ TS < 114	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	114 ≤ TS < 123	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 123	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

8. If all of the five gas turbines have less than a total heat input rate of 57.7 mmBTU/hr (HHV), based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the Sunshine Canyon Landfill (Facility Id 49111) Rule 431.1 Alternative Monitoring Plan (A/N 291681) and as shown in the table below.

The colorimetric tubes (Tubes) for analyzing H2S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 100	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	100 ≤ TS < 120	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	120 ≤ TS < 130	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 130	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

9. The operator shall synchronize all recording devices with respect to the time of day.
 [Rule 204]
10. The operator shall direct all landfill gas which is not burned in this equipment to another combustion or processing facility which is in full use, and can adequately process the volume of gas collected and which has been issued a valid permit by the SCAQMD.
 [Rule 1303(a) (1)-BACT]

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

11. The operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction which results in emission of landfill gas shall be reported to the SCAQMD within one hour after occurrence or within one hour 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 402, 430]
12. The operator shall install and maintain an adequate number of sampling ports and welded nipples with caps in the exhaust stack and provide safe access to these sampling ports in accordance with Rule 217 and SCAQMD approval.
[Rule 217]
13. A continuous combustion temperature monitoring and recording system shall be maintained, to determine exhaust temperature of last power turbine (T7) and calculate the combustion chamber temperature (TPZ) per manufacturer's recommendations, pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. 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 SCAQMD or EPA approved method.
[40 CFR 64]
14. The combustion chamber temperature of last power turbine (T7) shall be recorded at least every 15 minutes, and the hourly average shall be computed from such data points. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.
[40 CFR 64]
15. All deviations shall be reported to the SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and condition nos. 22 and 23 in Section K of this permit. For the purpose of this condition, a deviation shall be defined as when the last power turbine (T7) exhaust temperature is less than 1100 degrees Fahrenheit or greater than 1300 degrees Fahrenheit, or as otherwise approved by SCAQMD, occurs averaged over one hour during operation, except during start up and shutdown events lasting for a maximum of one hour. Multiple start up and shutdown events can occur consecutively.
[40 CFR 64]
16. For each semi-annual reporting period specified in condition no. 23 in Section K, whenever a deviation occurs from the temperature, 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.
[40 CFR 64]
17. A semi-annual monitoring report shall be submitted to SCAQMD, which shall include but may not be limited to the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period.
[40 CFR 64]
18. The owner or operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the SCAQMD if an accumulation of deviations exceeds 5% 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 SCAQMD within 90 calendar days after the due date of the semi-annual monitoring report.
[40 CFR 64]

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19. The operator shall install, maintain, and operate a Continuous Emission Monitoring System (CEMS), which is approved by the Executive Officer, to measure the 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, dry, and results shall be continuously recorded.
[Rule 218, 1303(b) (1) Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
20. The operator shall conduct annual performance tests (within 45 days of anniversary of initial test), at maximum achievable load, in accordance with the approved test procedures. Written results of such performance tests shall be submitted within 60 days after testing. Written results of such performance tests shall be submitted within 60 days after testing. Notice shall be provided to the SCAQMD 10 days prior to the testing so that an observer may be present. All source testing and analytical methods shall be submitted to the SCAQMD for approval at least 30 days prior to start of the tests. The tests shall include, but may not be limited to, a test of the inlet landfill gas and the gas turbine exhaust for:
- A. Methane and Total Non-Methane Hydrocarbons (TNMHC)
 - B. Carbon Monoxide (Exhaust Only)
 - C. Oxides of Nitrogen (Exhaust Only)
 - D. Carbon Dioxide
 - E. Particulate Matter/PM10 (Exhaust Only)
 - F. C1 through C3 Sulfur Compounds and Total Reduced Sulfur, as H₂S (Speciated, Inlet Only)
 - G. Toxic Air Contaminants (TAC) including, but not limited to, Benzene, Chlorobenzene, 1, 2-Dichloroethane, 1, 1-Dichloroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1, 1, 1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers
 - H. Hydrochloric Acid (Exhaust Only)
 - I. Oxygen and Nitrogen
 - J. Moisture Content
 - K. Temperature
 - L. Flow Rate
 - M. Volatile Organic Compounds (VOC) Control Efficiency, wt. % (based on inlet and exhaust VOC)
 - N. kW Generated.

The report shall also present the emissions data in units of pounds per hour (lb/hr), pounds per million BTU (lb/mmBTU), and parts per million (ppmv) on a dry basis at 15% O₂ (CO, NO_x, TNMHC, and TAC), and the gas turbine's overall TNMHC destruction efficiency (wt. %). Total Particulate/PM10 shall be reported in gr/scf and lbs/hr. The report shall project the total daily SO₂ and HCl emissions based on the test results. In addition, the report shall provide gas turbine's demonstrated efficiency at full load, in BTU/kW-hr, corrected to the higher heating value (HHV) of the fuel.

[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 1150.1, 1401, 3004 (a) (4), 40 CFR Part 60 Subpart WWW]

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

21. Emissions from the gas turbine shall not exceed the following:

Contaminant	lbs/day
CO	78.3
NOx (as NO ₂)	74.8
PM ₁₀	17.3
TNMOC (as CH ₄)	21.9
SOx (as SO ₂)	74.6

[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset]

22. Emission of oxides of nitrogen shall not exceed 12.5 ppmv, calculated at 15% O₂, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
23. Emission of carbon monoxide shall not exceed 21.5 ppmv, calculated at 15% O₂, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
24. All records shall be kept for a period of at least five years and shall be made available to SCAQMD personnel upon request.
[Rule 3004 (a) (4)]

Emissions and Requirements:

This equipment is subject to the applicable requirements of the following rules and regulations.

25. CO: 2000 ppmv, dry, 15 min. avg., Rule 407
CO: 21.5 ppmv, @ 15% O₂, Rule 1303-BACT/LAER
NOx: 12.5 ppmv, @ 15% O₂, Rule 1303-BACT/LAER
NOx: 96 ppmv, @ 15% O₂, dry, or 5.5 lb/MWh, NSPS, 40CFR60 Subpart KKKK
PM: Combustion Contaminant, 0.1 grain/dscf of gas, calculated @ 12% CO₂, averaged over 15 consecutive minutes, Rule 409.
NMOC: 10.5 ppmv, @ 15% O₂, as methane, Rule 1303-BACT/LAER
NMOC: 20 ppmv, as hexane, @ 3% O₂, dry OR 98% (by wt.) destruction efficiency, Rule 1150.1, 40 CFR60 Subpart WWW, 40 CFR 63 Subpart AAAA.
SOx: Based on maximum 150 ppmv H₂S con. in LFG, Rule 431.1
SOx: Facility wide total SOx emission shall not exceed 379.6 lbs/day, from five gas turbines and a regeneration flare.
SOx: 0.90 lb/MWh or 0.15 lb/mmBTU, NSPS, 40 CFR 60 Subpart KKKK.
SOx: 0.2% Rule 53

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

PERMIT TO OPERATE

Permit No. TBD
A/N 577288

Equipment Description:

Resource Recovery/Landfill Gas-to-Energy System consisting of:

1. Pretreated Landfill Gas (LFG) Supply.
2. Gas Turbine, No. 2, Solar, Mercury 50, landfill gas (LFG) fired, 61.0 mmBTU/hr, driving a nominal 4.9 megawatt (MW) electric generator.
3. Exhaust Stack, 4'- 7" Dia. X 26' - 6" high.

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 be operated by personnel properly trained in its operation.
[Rule 204]
4. This equipment shall be fired only with landfill gas except when propane is used to ignite the turbine during start-up.
[Rule 204]
5. A continuous flow indicating and recording device shall be installed and maintained in the landfill gas supply line to the gas turbine to measure and record the quantity of landfill gas (in scfm) supplied.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
6. The total heat input of landfill gas burned in the gas turbine shall not exceed 61.0 mmBTU/hr (HHV), based on a 24 -hour average. The operator shall monitor the total heat input rate of the landfill gas on a continuous basis. The owner or operator of this equipment shall install and maintain a remote notification system to notify the facility if an exceedance of 61.0 mmBTU/hr limit occurs.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4), Rule 1401]
7. If any of the five gas turbines has a total heat input rate of 57.7 mmBTU/hr (HHV) or greater, based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the table below.

The colorimetric tubes (Tubes) for analyzing H₂S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes

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shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 95	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	95 ≤ TS < 114	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	114 ≤ TS < 123	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 123	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

8. If all of the five gas turbines have less than a total heat input rate of 57.7 mmBTU/hr (HHV), based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the Sunshine Canyon Landfill (Facility Id 49111) Rule 431.1 Alternative Monitoring Plan (A/N 291681) and as shown in the table below.

The colorimetric tubes (Tubes) for analyzing H₂S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 100	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	100 ≤ TS < 120	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	120 ≤ TS < 130	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 130	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

9. The operator shall synchronize all recording devices with respect to the time of day.
 [Rule 204]
10. The operator shall direct all landfill gas which is not burned in this equipment to another combustion or processing facility which is in full use, and can adequately process the volume of gas collected and which has been issued a valid permit by the SCAQMD.
 [Rule 1303(a) (1)-BACT]

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

11. The operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction which results in emission of landfill gas shall be reported to the SCAQMD within one hour after occurrence or within one hour 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 402, 430]
12. The operator shall install and maintain an adequate number of sampling ports and welded nipples with caps in the exhaust stack and provide safe access to these sampling ports in accordance with Rule 217 and SCAQMD approval.
[Rule 217]
13. A continuous combustion temperature monitoring and recording system shall be maintained, to determine exhaust temperature of last power turbine (T7) and calculate the combustion chamber temperature (TPZ) per manufacturer's recommendations, pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. 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 SCAQMD or EPA approved method.
[40 CFR 64]
14. The combustion chamber temperature of last power turbine (T7) shall be recorded at least every 15 minutes, and the hourly average shall be computed from such data points. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.
[40 CFR 64]
15. All deviations shall be reported to the SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and condition nos. 22 and 23 in Section K of this permit. For the purpose of this condition, a deviation shall be defined as when the last power turbine (T7) exhaust temperature is less than 1100 degrees Fahrenheit or greater than 1300 degrees Fahrenheit, or as otherwise approved by SCAQMD, occurs averaged over one hour during operation, except during start up and shutdown events lasting for a maximum of one hour. Multiple start up and shutdown events can occur consecutively.
[40 CFR 64]
16. For each semi-annual reporting period specified in condition no. 23 in Section K, whenever a deviation occurs from the temperature, 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.
[40 CFR 64]
17. A semi-annual monitoring report shall be submitted to SCAQMD, which shall include but may not be limited to the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period.
[40 CFR 64]
18. The owner or operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the SCAQMD if an accumulation of deviations exceeds 5% 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 SCAQMD within 90 calendar days after the due date of the semi-annual monitoring report.
[40 CFR 64]

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

19. The operator shall install, maintain, and operate a Continuous Emission Monitoring System (CEMS), which is approved by the Executive Officer, to measure the 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, dry, and results shall be continuously recorded.
[Rule 218, 1303(b) (1) Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
20. The operator shall conduct annual performance tests (within 45 days of anniversary of initial test), at maximum achievable load, in accordance with the approved test procedures. Written results of such performance tests shall be submitted within 60 days after testing. Written results of such performance tests shall be submitted within 60 days after testing. Notice shall be provided to the SCAQMD 10 days prior to the testing so that an observer may be present. All source testing and analytical methods shall be submitted to the SCAQMD for approval at least 30 days prior to start of the tests. The tests shall include, but may not be limited to, a test of the inlet landfill gas and the gas turbine exhaust for:
- A. Methane and Total Non-Methane Hydrocarbons (TNMHC)
 - B. Carbon Monoxide (Exhaust Only)
 - C. Oxides of Nitrogen (Exhaust Only)
 - D. Carbon Dioxide
 - E. Particulate Matter/PM10 (Exhaust Only)
 - F. C1 through C3 Sulfur Compounds and Total Reduced Sulfur, as H₂S (Speciated, Inlet Only)
 - G. Toxic Air Contaminants (TAC) including, but not limited to, Benzene, Chlorobenzene, 1, 2-Dichloroethane, 1, 1-Dichloroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1, 1, 1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers
 - H. Hydrochloric Acid (Exhaust Only)
 - I. Oxygen and Nitrogen
 - J. Moisture Content
 - K. Temperature
 - L. Flow Rate
 - M. Volatile Organic Compounds (VOC) Control Efficiency, wt. % (based on inlet and exhaust VOC)
 - N. kW Generated.

The report shall also present the emissions data in units of pounds per hour (lb/hr), pounds per million BTU (lb/mmBTU), and parts per million (ppmv) on a dry basis at 15% O₂ (CO, NO_x, TNMHC, and TAC), and the gas turbine's overall TNMHC destruction efficiency (wt. %). Total Particulate/PM10 shall be reported in gr/scf and lbs/hr. The report shall project the total daily SO₂ and HCl emissions based on the test results. In addition, the report shall provide gas turbine's demonstrated efficiency at full load, in BTU/kW-hr, corrected to the higher heating value (HHV) of the fuel.

[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 1150.1, 1401, 3004 (a) (4), 40 CFR Part 60 Subpart WWW]

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

21. Emissions from the gas turbine shall not exceed the following:

Contaminant	lbs/day
CO	78.3
NOx (as NO2)	74.8
PM10	17.3
TNMOC (as CH4)	21.9
SOx (as SO2)	74.6

[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset]

22. Emission of oxides of nitrogen shall not exceed 12.5 ppmv, calculated at 15% O2, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
23. Emission of carbon monoxide shall not exceed 21.5 ppmv, calculated at 15% O2, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
24. All records shall be kept for a period of at least five years and shall be made available to SCAQMD personnel upon request.
[Rule 3004 (a) (4)]

Emissions and Requirements:

This equipment is subject to the applicable requirements of the following rules and regulations.

25. CO: 2000 ppmv, dry, 15 min. avg., Rule 407
CO: 21.5 ppmv, @ 15% O2, Rule 1303-BACT/LAER
NOx: 12.5 ppmv, @ 15% O2, Rule 1303-BACT/LAER
NOx: 96 ppmv, @ 15% O2, dry, or 5.5 lb/MWh, NSPS, 40CFR60 Subpart KKKK
PM: Combustion Contaminant, 0.1 grain/dscf of gas, calculated @ 12% CO2, averaged over 15 consecutive minutes, Rule 409.
NMOC: 10.5 ppmv, @ 15% O2, as methane, Rule 1303-BACT/LAER
NMOC: 20 ppmv, as hexane, @ 3% O2, dry OR 98% (by wt.) destruction efficiency, Rule 1150.1, 40 CFR60 Subpart WWW, 40 CFR 63 Subpart AAAA.
SOx: Based on maximum 150 ppmv H2S con. in LFG, Rule 431.1
SOx: Facility wide total SOx emission shall not exceed 379.6 lbs/day, from five gas turbines and a regeneration flare.
SOx: 0.90 lb/MWh or 0.15 lb/mmBTU, NSPS, 40 CFR 60 Subpart KKKK.
SOx: 0.2% Rule 53

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

PERMIT TO OPERATE

Permit No. TBD
A/N 577289

Equipment Description:

Resource Recovery/Landfill Gas-to-Energy System consisting of:

1. Pretreated Landfill Gas (LFG) Supply.
2. Gas Turbine, No. 1, Solar, Mercury 50, landfill gas (LFG) fired, 61.0 mmBTU/hr, driving a nominal 4.9 megawatt (MW) electric generator.
3. Exhaust Stack, 4'- 7" Dia. X 26' - 6" high.

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 be operated by personnel properly trained in its operation.
[Rule 204]
4. This equipment shall be fired only with landfill gas except when propane is used to ignite the turbine during start-up.
[Rule 204]
5. A continuous flow indicating and recording device shall be installed and maintained in the landfill gas supply line to the gas turbine to measure and record the quantity of landfill gas (in scfm) supplied.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
6. The total heat input of landfill gas burned in the gas turbine shall not exceed 61.0 mmBTU/hr (HHV), based on a 24 -hour average. The operator shall monitor the total heat input rate of the landfill gas on a continuous basis. The owner or operator of this equipment shall install and maintain a remote notification system to notify the facility if an exceedance of 61.0 mmBTU/hr limit occurs.
[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 3004(a) (4), Rule 1401]
7. If any of the five gas turbines has a total heat input rate of 57.7 mmBTU/hr (HHV) or greater, based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the table below.

The colorimetric tubes (Tubes) for analyzing H₂S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes

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shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 95	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	95 ≤ TS < 114	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	114 ≤ TS < 123	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 123	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

8. If all of the five gas turbines have less than a total heat input rate of 57.7 mmBTU/hr (HHV), based on a 24-hour average, from the combustion of landfill gas, then the operator shall conduct landfill gas sulfur monitoring as outlined in the Sunshine Canyon Landfill (Facility Id 49111) Rule 431.1 Alternative Monitoring Plan (A/N 291681) and as shown in the table below.

The colorimetric tubes (Tubes) for analyzing H2S as TS shall be used in accordance with manufacturer's instructions. Testing with Tubes shall be conducted by personnel properly trained in its operation. The Tubes shall be used within their shelf life. The concentration of TS in the landfill gas (as measured by the Tubes), shall be used to determine the action level, monitoring tier, and sampling requirements as shown below.

Action Level	Monitoring Tiers	Sampling Requirements
Tier I	TS < 100	- Quarterly using Method 307-91 - Monthly using Tubes
Tier II	100 ≤ TS < 120	- Monthly using Method 307-91 - Weekly using Tubes
Tier III	120 ≤ TS < 130	- Weekly using Method 307-91 - Daily using Tubes
Tier IV	TS ≥ 130	- Potential Rule 1303-BACT violation for daily SOx emission exceedance. - Follow Reporting Provisions listed under Section K-Title V Administration - Daily using Method 307-91

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

9. The operator shall synchronize all recording devices with respect to the time of day.
 [Rule 204]
10. The operator shall direct all landfill gas which is not burned in this equipment to another combustion or processing facility which is in full use, and can adequately process the volume of gas collected and which has been issued a valid permit by the SCAQMD.
 [Rule 1303(a) (1)-BACT]

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11. The operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction which results in emission of landfill gas shall be reported to the SCAQMD within one hour after occurrence or within one hour 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 402, 430]
12. The operator shall install and maintain an adequate number of sampling ports and welded nipples with caps in the exhaust stack and provide safe access to these sampling ports in accordance with Rule 217 and SCAQMD approval.
[Rule 217]
13. A continuous combustion temperature monitoring and recording system shall be maintained, to determine exhaust temperature of last power turbine (T7) and calculate the combustion chamber temperature (TPZ) per manufacturer's recommendations, pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. 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 SCAQMD or EPA approved method.
[40 CFR 64]
14. The combustion chamber temperature of last power turbine (T7) shall be recorded at least every 15 minutes, and the hourly average shall be computed from such data points. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.
[40 CFR 64]
15. All deviations shall be reported to the SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and condition nos. 22 and 23 in Section K of this permit. For the purpose of this condition, a deviation shall be defined as when the last power turbine (T7) exhaust temperature is less than 1100 degrees Fahrenheit or greater than 1300 degrees Fahrenheit, or as otherwise approved by SCAQMD, occurs averaged over one hour during operation, except during start up and shutdown events lasting for a maximum of one hour. Multiple start up and shutdown events can occur consecutively.
[40 CFR 64]
16. For each semi-annual reporting period specified in condition no. 23 in Section K, whenever a deviation occurs from the temperature, 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.
[40 CFR 64]
17. A semi-annual monitoring report shall be submitted to SCAQMD, which shall include but may not be limited to the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period.
[40 CFR 64]
18. The owner or operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the SCAQMD if an accumulation of deviations exceeds 5% 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 SCAQMD within 90 calendar days after the due date of the semi-annual monitoring report.
[40 CFR 64]

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19. The operator shall install, maintain, and operate a Continuous Emission Monitoring System (CEMS), which is approved by the Executive Officer, to measure the 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, dry, and results shall be continuously recorded.
[Rule 218, 1303(b) (1) Modeling, 1303(b) (2)-Offset, 3004(a) (4)]
20. The operator shall conduct annual performance tests (within 45 days of anniversary of initial test), at maximum achievable load, in accordance with the approved test procedures. Written results of such performance tests shall be submitted within 60 days after testing. Written results of such performance tests shall be submitted within 60 days after testing. Notice shall be provided to the SCAQMD 10 days prior to the testing so that an observer may be present. All source testing and analytical methods shall be submitted to the SCAQMD for approval at least 30 days prior to start of the tests. The tests shall include, but may not be limited to, a test of the inlet landfill gas and the gas turbine exhaust for:
- A. Methane and Total Non-Methane Hydrocarbons (TNMHC)
 - B. Carbon Monoxide (Exhaust Only)
 - C. Oxides of Nitrogen (Exhaust Only)
 - D. Carbon Dioxide
 - E. Particulate Matter/PM10 (Exhaust Only)
 - F. C1 through C3 Sulfur Compounds and Total Reduced Sulfur, as H₂S (Speciated, Inlet Only)
 - G. Toxic Air Contaminants (TAC) including, but not limited to, Benzene, Chlorobenzene, 1, 2-Dichloroethane, 1, 1-Dichloroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1, 1, 1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers
 - H. Hydrochloric Acid (Exhaust Only)
 - I. Oxygen and Nitrogen
 - J. Moisture Content
 - K. Temperature
 - L. Flow Rate
 - M. Volatile Organic Compounds (VOC) Control Efficiency, wt. % (based on inlet and exhaust VOC)
 - N. kW Generated.

The report shall also present the emissions data in units of pounds per hour (lb/hr), pounds per million BTU (lb/mmBTU), and parts per million (ppmv) on a dry basis at 15% O₂ (CO, NO_x, TNMHC, and TAC), and the gas turbine's overall TNMHC destruction efficiency (wt. %). Total Particulate/PM10 shall be reported in gr/scf and lbs/hr. The report shall project the total daily SO₂ and HCl emissions based on the test results. In addition, the report shall provide gas turbine's demonstrated efficiency at full load, in BTU/kW-hr, corrected to the higher heating value (HHV) of the fuel.

[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset, 1150.1, 1401, 3004 (a) (4), 40 CFR Part 60 Subpart WWW]

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21. Emissions from the gas turbine shall not exceed the following:

Contaminant	lbs/day
CO	78.3
NOx (as NO ₂)	74.8
PM ₁₀	17.3
TNMOC (as CH ₄)	21.9
SOx (as SO ₂)	74.6

[Rule 1303(b) (1)-Modeling, 1303(b) (2)-Offset]

22. Emission of oxides of nitrogen shall not exceed 12.5 ppmv, calculated at 15% O₂, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
23. Emission of carbon monoxide shall not exceed 21.5 ppmv, calculated at 15% O₂, dry basis, except during periods of startup and shutdown not to exceed 30 minutes per incident.
[Rule 1303 (a) (1)-BACT, 1303(b) (1)-Modeling, 1303(b) (2)-Offset]
24. All records shall be kept for a period of at least five years and shall be made available to SCAQMD personnel upon request.
[Rule 3004 (a) (4)]

Emissions and Requirements:

This equipment is subject to the applicable requirements of the following rules and regulations.

25. CO: 2000 ppmv, dry, 15 min. avg., Rule 407
CO: 21.5 ppmv, @ 15% O₂, Rule 1303-BACT/LAER
NOx: 12.5 ppmv, @ 15% O₂, Rule 1303-BACT/LAER
NOx: 96 ppmv, @ 15% O₂, dry, or 5.5 lb/MWh, NSPS, 40CFR60 Subpart KKKK
PM: Combustion Contaminant, 0.1 grain/dscf of gas, calculated @ 12% CO₂, averaged over 15 consecutive minutes, Rule 409.
NMOC: 10.5 ppmv, @ 15% O₂, as methane, Rule 1303-BACT/LAER
NMOC: 20 ppmv, as hexane, @ 3% O₂, dry OR 98% (by wt.) destruction efficiency, Rule 1150.1, 40 CFR60 Subpart WWW, 40 CFR 63 Subpart AAAAA.
SOx: Based on maximum 150 ppmv H₂S con. in LFG, Rule 431.1
SOx: Facility wide total SOx emission shall not exceed 379.6 lbs/day, from five gas turbines and a regeneration flare.
SOx: 0.90 lb/MWh or 0.15 lb/mmBTU, NSPS, 40 CFR 60 Subpart KKKK.
SOx: 0.2% Rule 53

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RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, abrasive blasting equipment, glove-box, < 53 ft³, with dust filter.

Periodic Monitoring:

1. The operator shall perform an annual inspection of the equipment and filter media for leaks, broken or torn filter media and improperly installed filter media. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):
 - A. The name of the person performing the inspection and/or maintenance of the filter media;
 - B. The date, time and results of the inspection; and
 - C. The date, time and description of any maintenance or repairs resulting from the inspection.[Rule 3004 (a) (4)]
2. The operator shall discharge dust collected in this equipment only into closed containers.
[Rule 3004 (a) (4)]
3. The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.
The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:
 - A. Stack or emission point identification;
 - B. Description of any corrective actions taken to abate visible emissions; and
 - C. Date and time visible emission was abated.[Rule 3004 (a) (4)]

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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 regulation:

VOC: Rule 1171, see Appendix B for emission limits

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, cleaning equipment, small unheated, non-conveyorized

Emissions and Requirements:

1. This equipment is subject to the applicable requirements of the following rules and regulation:

VOC: Rule 1122

VOC: Rule 1171, see Appendix B for emission limits

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, boiler, with rated heat input starting at 75, 000 BTU/hr up to and including 2 mmBTU/hr.

Emissions And Requirements:

1. This equipment is subject to the applicable requirements of the following rules and regulations:

PM: 0.1 gr/scf, Rule 409

CO: 2000 ppmv, Rule 407

NOx; 30 ppmv @3% O₂, dry-type 2 unit, > 400,000 BTU/hr and ≤2 mm BTU/hr, Rule 1146.2

NOx; 55 ppmv @3% O₂, dry-type 1 unit, ≥ 400,000 BTU/hr and ≤400,000 BTU/hr, Rule 1146.2

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, coating equipment, portable, architectural coatings.

Periodic Monitoring:

1. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records of all coatings consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coating.

For other architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coating.

[RULE 3004(a) (4)]

Emissions and Requirements:

2. This equipment is subject to the applicable requirements of the following rules and regulation:

VOC: Rule 1113, see Appendix B for emission limits

VOC: Rule 1171, see Appendix B for emission limits

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, air conditioning units.

Emissions and Requirements:

I. This equipment is subject to the applicable requirements of the following rules and regulation:

VOC: Rule 1415

VOC: 40 CFR 82 Subpart f

FACILITY PERMIT TO OPERATE SUNSHINE GAS PRODUCERS, LLC

RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, fire extinguishing equipment

Emissions and Requirements:

1. This equipment is subject to the applicable requirements of the following rules and regulation:

Halon: Rule 1418