



AUG 29 2012

Suparna Chakladar
Fortistar Methane Group
5087 Junction Road
Lockport, NY 14094

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-2996 and S-2890
Project # S-1110856 and S-1110886**

Dear Ms. Chakladar:

Enclosed for your review and comment is the District's analysis of Fortistar's application for the Federally Mandated Operating Permits for its landfill gas collection system (Neo Tulare, LLC, S-2996) and energy production facility (MM Tulare, LLC, S-2890) located at Visalia Landfill on northeast corner of Road 80 & Ave 328 in Tulare County, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

cc: Kamaljit Sran, Permit Services Engineer

Attachments

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585



AUG 29 2012

Gerardo C. Rios, Chief
Permits Office (AIR-3)
U.S. EPA - Region IX
75 Hawthorne St
San Francisco, CA 94105

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-2996 and S-2890
Project # S-1110856 and S-1110886**

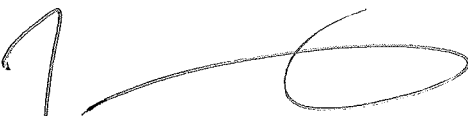
Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of Fortistar's application for the Federally Mandated Operating Permits for its landfill gas collection system (Neo Tulare, LLC, S-2996) and energy production facility (MM Tulare, LLC, S-2890) located at Visalia Landfill on northeast corner of Road 80 & Ave 328 in Tulare County, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

cc: Kamaljit Sran, Permit Services Engineer

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AUG 29 2012

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-2996 and S-2890
Project # S-1110856 and S-1110886**

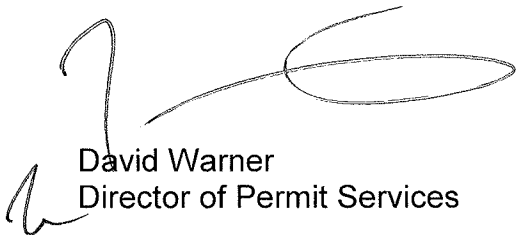
Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of Fortistar's application for the Federally Mandated Operating Permits for its landfill gas collection system (Neo Tulare, LLC, S-2996) and energy production facility (MM Tulare, LLC, S-2890) located at Visalia Landfill on northeast corner of Road 80 & Ave 328 in Tulare County, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

cc: Kamaljit Sran, Permit Services Engineer

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Visalia Times-Delta

**NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED ISSUANCE OF
FEDERALLY MANDATED OPERATING PERMITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of the Federally Mandated Operating permits to Fortistar Methane Group for its landfill gas collection system (Neo Tulare, LLC, S-2996) and energy production facility (MM Tulare, LLC, S-2890) located at Visalia Landfill on northeast corner of Road 80 & Ave 328 in Tulare County, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1110865 and S-1110886, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed Federally Mandated Operating initial permits. If requested by the public, the District will hold a public hearing regarding issuance of this initial permit. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed initial permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

SANJOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

**TITLE V APPLICATION REVIEW
NEO TULARE, LLC & MM TULARE ENERGY, LLC
FACILITY # S-2996 & S-2890**

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Title V Application Review

Landfill Gas Collection System

Project #: S-1110856 & 1110886

Deemed Complete: April 13, 2011

Engineer: Kamaljit Sran

Date: August 28, 2012

Facility Number: S-2996 & S-2890
Facility Name: Neo Tulare, LLC & MM Tulare Energy, LLC
Mailing Address: 5087 Junction Road
Lockport, NY 14094

Contact Name: Suparna Chakladar
Phone: (951) 833-4153

Responsible Official: Anthony Falbo
Title: Vice President and General Manger

I. PROPOSAL

Fortistar Methane Group is proposing that the initial Title V Operating Permit be issued for its existing landfill gas collection system (S-2996) and landfill gas power generation source (S-2890) located on Visalia Landfill owned and operated by Tulare County. The purpose of this engineering evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

II. FACILITY LOCATION

This source is located at Visalia Landfill on northeast corner of Road 80 & Ave 328 in Tulare County, California.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is shown in Attachment A.

A summary of the exempt equipment categories which describe the insignificant activities or equipment at the facility not requiring a permit is shown in Attachment B. This equipment is not exempt from facility-wide requirements.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is not requesting to use the any model general permit templates:

V. SCOPE OF EPA AND PUBLIC REVIEW

Since applicant is not requested to use any model general permit templates, the proposed permit in it's entirety is subject to EPA and public review.

VI. APPLICABLE REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATES

The applicant has not proposed to utilize any model general permit templates. All applicable requirements are explicitly addressed in the permit outside of the general permit templates.

VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES

District Rule 1070, Inspections (as amended December 17, 1992)

District Rule 1081, Source Sampling (as amended December 16, 1993)

District Rule 1100, Equipment Breakdown (as amended December 17, 1992)

District Rule 2010, Permits Required (as amended December 17, 1992)

District Rule 2020, Exemptions (as amended August 18, 2011)

District Rule 2031, Transfer Of Permits (as amended December 17, 1992)

District Rule 2040, Applications (as amended December 17, 1992)

District Rule 2070, Standards for Granting Applications (as amended December 17, 1992)

District Rule 2080, Conditional Approval (as amended December 17, 1992)

District Rule 2201, New and Modified Stationary Source Review Rule (as amended April 21, 2011)

District Rule 2520, Federally Mandated Operating Permits (as amended June 21, 2001)

District Rule 4101, Visible Emissions (as amended December 17, 2005)

District Rule 4201, Particulate Matter Concentration (as amended December 17, 1992)

District Rule 4311, Flares (as amended June 19, 2009)

District Rule 4601, Architectural Coatings (as amended December 17, 2009)

District Rule 4642, Solid Waste Disposal Sites (as amended April 6, 1998)

District Rule 4702, Internal Combustion Engines (as amended August 18, 2011)

District Rule 4801, Sulfur Compounds (as amended December 17, 1992) (Non SIP replacement for Kern County Rule 407)

District Rules 8021, 8031, 8041, 8051, and 8061, Fugitive Dust (PM₁₀) Emissions (as amended August 19, 2004)

District Rule 8071, Fugitive Dust (PM₁₀) Emissions (as amended September 16, 2004)

40 CFR 61, Subpart M - Asbestos

40 CFR 82, Subpart F - Stratospheric Ozone

40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

40 CFR Part 64 - Compliance Assurance Monitoring

VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permit. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through the Title V Permit".

The facility is subject to the following District rules which are not currently Federally Enforceable:

1. District Rule 4102 - Nuisance

For these facilities, condition 39 of the facility wide requirements is based on the rules identified above and is not Federally Enforceable Through the Title V Permit.

IX. COMPLIANCE

A. Requirements Addressed by Model General Permit Templates

The applicant has chosen to not use any general permit templates; therefore, no requirements are addressed by model general permit templates.

B. Requirements Not Addressed by Model General Permit Templates

The applicant has not proposed to utilize any model general permit templates. All applicable requirements are explicitly addressed in the permit outside of the general permit templates

1. District Rule 2201

a. Landfill Gas Collection System (S-2996-1-3)

This permit unit was subject to the District NSR Rule at the time the applicant applied for an Authority to Construct. In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting PTO were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- Condition 1 from the PTO was included as condition 40 of the facility wide requirements.
- Condition 2 from the PTO was included as condition 1 of the requirements for this permit unit.
- Condition 3 from the PTO was included as condition 2 of the requirements for this permit unit.
- Condition 4 from the PTO was included as condition 3 of the requirements for this permit unit.
- Condition 5 from the PTO was included as condition 4 of the requirements for this permit unit.
- Condition 6 from the PTO was included as condition 22 of the facility wide requirements.
- Condition 7 from the PTO was included as condition 39 of the facility wide requirements. This condition is not federally enforceable because it is based on the public nuisance requirements of the California Health and Safety Code rather than a federally applicable requirement.
- Condition 8 from the PTO was included as condition 5 of the requirements for this permit unit.
- Condition 9 from the PTO was included as condition 6 of the requirements for this permit unit.

- Condition 10 from the PTO was included as condition 7 of the requirements for this permit unit.
- Condition 11 from the PTO was included as condition 9 of the requirements for permit unit S-2996-4-1.
- Condition 12 from the PTO was included as condition 8 of the requirements for this permit unit.
- Condition 13 from the PTO was included as condition 7 of the requirements for permit unit S-2996-4-1.
- Condition 14 from the PTO was included as condition 16 of the requirements for this permit unit.
- Condition 15 from the PTO was included as condition 10 of the requirements for this permit unit.
- Condition 16 from the PTO was included as condition 16 of the requirements for this permit unit.
- Condition 17 from the PTO was included as condition 17 of the requirements for this permit unit.
- Condition 18 from the PTO was included as condition 18 of the requirements for this permit unit.
- Condition 19 from the PTO was included as condition 20 of the requirements for this permit unit.

b. Enclosed Ground Flare (S-2996-4-1)

This permit unit was subject to the District NSR Rule at the time the applicant applied for an Authority to Construct. In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting PTO were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- Condition 1 from the PTO was included as condition 40 of the facility wide requirements.
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- Condition 5 from the PTO was included as condition 5 of the requirements for this permit unit.
- Condition 6 from the PTO was included as condition 39 of the facility wide requirements. This condition is not federally enforceable because it is based on the public nuisance requirements of the California Health and Safety Code rather than a federally applicable requirement.

- Condition 7 from the PTO was included as condition 13 of the requirements for this permit unit.
- Condition 8 from the PTO was included as condition 14 of the requirements for this permit unit.

c. 1150 HP Landfill Gas Fired Engines (S-2890-1-7 & -2-7)

This permit unit was subject to the District NSR Rule at the time the applicant applied for an Authority to Construct. In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting PTO were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- Conditions 1 through 6 from the PTO were included as conditions 1 through 6 of the requirements for these permit units.
- Condition 7 from the PTO was included not included in the requirements for these permit units since this this redundant condition.
- Conditions 8 through 28 from the PTO were included as conditions 7 through 27 of the requirements for these permit units.

2. District Rule 1081 Source Sampling (as amended December 17, 1992)

- a. Landfill Gas Collection System (S-2996-1-3)
b. 1150 HP Landfill Gas Fired Engines (S-2890-1-7 & -2-7)

Sections 3.0, 4.0, 5.0, 6.0, and 7.0 of District Rule 1081 set forth requirements for sampling facilities, collection of samples, test methods, test procedures, and administrative requirements, respectively. These requirements are covered by condition 17 of the requirements for permit unit S-2996-1-3. Conditions 21, 22, 23 of the requirements for the permit units S-2890-1-7 & -2-7 cover requirements of this.

3. District Rule 1100 Equipment Breakdown (as amended December 17, 1992) - (Non SIP replacement for Kern County Rule 111)

- a. Facility wide Requirements (S-2996-0-2 & S-2890-0-2)

Section 6.1 requires the owner or operator to notify the APCO of any occurrence which constitutes a breakdown condition; the notification should include time, location, and equipment involved and to the extent known the cause of the occurrence. Such notification should be given as soon as reasonably possible, but no later than one hour after detection, unless the owner or operator demonstrates to the APCO that the longer reporting period was necessary. Condition 1 of facility-wide requirements (S-2996-0-2 & S-2890-0-2) assures compliance with this requirement.

Section 7.0 requires the owner or operator to submit the APCO a written report within ten days of any occurrence that constitutes a breakdown condition. The report should include time, location, equipment involved, cause of the occurrence, estimated emissions in excess of those allowed, and methods utilized to restore normal operation. Conditions 2 and 11 of facility-wide requirements (S-2996-0-2 & S-2890-0-2) assure compliance with this requirement.

District Rule 1100 has been submitted to the EPA to replace the SIP approved Tulare County APCD Rule 111. District Rule 1100 is at least as stringent as the County Rule addressing breakdowns, as is evident in the comparison on below in table 1:

Table 1 - Comparison of District Rule 1100 to Tulare County Rule 111

REQUIREMENT	District Rule 1100	Tulare County Rule 111
A breakdown occurrence must be reported as soon as reasonably possible but no later than 1 hour after detection.	✓	✓ (2 hours)
A variance must be obtained if the occurrence will last longer than a production run or 24 hours, whichever is shorter (96 hours for CEM systems)	✓	✓
A report must be submitted to the APCO within 10 days of correction of a breakdown occurrence which includes the following:	✓	✓
1) A statement that the breakdown condition has been corrected together with the date of correction and proof of compliance.	✓	✓
2) A specific statement of the reason(s) or cause(s) for the occurrence sufficient to enable the APCO to determine whether the occurrence was a breakdown condition.	✓	✓
3) A description of corrective measures undertaken and/or be undertaken to avoid such an occurrence in the future.	✓	✓
4) Pictures of the equipment or controls which, failed if available.	✓	✓

4. District Rule 1130 Severability (as amended December 17, 1992)

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

Section 2.0 requires that if any provision, clause, sentence, paragraph, section or part of these conditions for any reason be judged invalid, such judgment shall not affect or invalidate the remainder of conditions. Condition 12 of facility wide requirements (S-2996-0-2 & S-2890-0-2) assures compliance with this requirement.

5. District Rule 1160 Emission Standards (adapted November 18, 1992)

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

Section 5.0 requires the owner or operator of any stationary source to provide the District with a written emission statement showing actual emissions of reactive organic gases (ROGs) and nitrogen oxides (NO_x) from that source. The District waives this requirement for sources emitting less than 25 tons per year of these pollutants if the District provides the Air Resources Board (ARB) with an emission inventory of sources emitting greater than 10 tons per year of NO_x or ROGs based on the use of emission factors acceptable to the ARB. See condition 3 of the facility-wide requirements (S-2996-0-2 & S-2890-0-2).

**6. District Rule 2010 Permits Required (as amended December 17, 1992)
District Rule 2020 Exemptions (as amended March 21, 2002)**

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

District Rule 2010 sections 3.0 and 4.0 require any person building, modifying or replacing any operation that may cause the issuance of air contaminants to apply for an Authority to Construct (ATC) from the District in advance. The ATC will remain in effect until the Permit to Operate (PTO) is granted.

District Rule 2020 lists equipment which are specifically exempt from obtaining permits and specifies recordkeeping requirements as stated in condition 4 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

7. District Rule 2031 Transfer of Permits; District Rule 2070, Standards for Granting Applications; and District Rule 2080, Conditional Approval (as amended August 18, 2011)

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

These rules set forth requirements to comply with all conditions of the Permit to Operate. Permits to Operate or Authorities to Construct are not transferable unless a new application is filed with and approval by the District. All source operations must be constructed and operated as specified in the Authority to Construct. See conditions 5 and 6 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

8. District Rule 2040 Applications (as amended December 17, 1992)

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

Section 3.0 requires that every application for a permit shall be filed in a manner and form prescribed by the District. See condition 7 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

9. District Rule 2520 Federally Mandated Operating Permits (as amended June 21, 2001)

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

Section 5.2 requires that permittee submit applications for Title V permit renewal at least six months prior to permit expiration. Condition 36 of the facility wide requirements (S-2996-0-2 & S-2890-0-2) assures compliance with this requirement.

Section 9.3.2 states that periodic monitoring be required if none is associated with a given emission limit to assure compliance. Monitoring is required for the permit units. The following table shows permit units and conditions requiring periodic monitoring.

Table 2: Section 9.3.2 Condition Mapping

Permit Unit	Section 9.3.2
S-2996-1-3	20
S-2996-4-1	6
S-2890-1-7 & -2-7	30

Sections 9.4.1 and 9.4.2 contain requirements to incorporate all applicable record keeping requirements into the Title V permit, specific records of any required monitoring, and the retention of all required monitoring data and support information for five years. The requirements to keep specific monitoring records and retain records for five years are stated in condition 8 and 9 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

Section 9.5 contains requirements for the submittal of reports for monitoring results at least every six months and prompt recording of deviations from permitting requirements, including those attributable to upset conditions. All required reports must be certified by the responsible official. These requirements are stated in conditions 10 and 11 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

Section 9.7 states that the Title V permit also must contain a severability clause in case of a court challenge; the severability clause is in condition 12 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

Section 9.8 contains following provisions for the Title V permit: 1) the permittee must comply with all permit conditions; 2) that the permitted activity would have to be reduced to comply with the permit conditions should not be a defense in an enforcement action, 3) that the permit may be revoked, modified, reissued, or reopened for cause, 4) that the Title V permit does not reflect any property rights, and 5) that the permittee will furnish the District with any requested information to determine compliance. Compliance with this section will be assured by conditions 5

and 13 through 16 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

Section 9.9 requires the permittee to pay annual permit fees and applicable fees described in District Rules 3010, 3030, 3050, 3080, 3090, 3110, and 3120. This requirement is stated in condition 17 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

Section 9.12.1 states that all terms and conditions of a permit are required pursuant to the CAA, including provisions designed to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. This requirement is stated in condition 5 of the facility wide (S-2996-0-2 & S-2890-0-2).

Section 9.13.1 requires that any report or document submitted under a permit requirement or following a request for information by the District or EPA to contain certification by a responsible official to its truth, accuracy, and completeness. Compliance with this section will be assured by condition 28 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

Section 9.13.2 presents inspection and entry requirements that allow an authorized representative of the District to enter a permittee's premises to inspect equipment, operations, work practices, permits on file, and to sample substances or monitor parameters for the purpose of assuring compliance with the permit requirements. Compliance with these requirements will be assured by conditions 18, 19, 20, and 21 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

Section 9.16 requires the permittee to submit certification of compliance with the terms and standards of Title V permits to the EPA and the District annually (or more frequently as required by the applicable District requirement). Condition 36 of the facility wide requirements (S-2996-0-2 & S-2890-0-2) assures compliance with this requirement.

Section 10.0 requires that any application form, report or compliance certification submitted pursuant to these regulations to contain certification of truth, accuracy, and completeness by a responsible official. Compliance with this section will be assured by condition 26 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

10. District Rule 4101 Visible Emissions (as amended February 17, 2005)

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No.1 on the Ringlemann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than 20% opacity. This requirement is stated in condition 22 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

11. District Rule 4201 Particulate Matter Concentration (as amended December 17, 1992)

a. Enclosed Ground Flare (S-2996-4-1)

This rule prohibits the discharge of particulate matter exceed 0.1 grain/dscf into the atmosphere from any emissions source.

The F-factor for LPG (corrected to 68 degrees F) is 9690 dscf/MMBtu per facility source test report (11/18/08). Since the flare is rated at 54.0 MMBtu/hr, the exhaust flowrate is estimated to be:

$$54.0 \text{ MMBtu/hr} \times 9690 \text{ dscf/MMBtu} = 523,260 \text{ dscf/hr}$$

PM10 emissions were 0.03 lb/MMBtu per condition 6 of the requirements for permit unit S-2996-4-1. Assuming all of PM is PM10, total PM is

$$54.0 \text{ MMBtu/hr} \times 0.03 \text{ lb/MMBtu} \times 7000 \text{ gr/lb} = 11,340 \text{ gr/hr}$$

We can show compliance with this rule by the following:

$$11,340 \text{ grain/hr} \div 523,260 \text{ dscf/hr} = 0.02 \text{ gr/dscf} \ll 0.1 \text{ gr/dscf}$$

Therefore, compliance with rule requirement is expected.

b. 1150 HP Landfill Gas Fired Engines (S-2890-1-7 & -2-7)

$$0.07 \frac{\text{g}}{\text{hp} \cdot \text{hr}} \times \frac{1 \text{ hp} \cdot \text{hr}}{2,542.5 \text{ Btu}} \times \frac{10^6 \text{ Btu}}{9,578 \text{ dscf}} \times \frac{0.30 \text{ Btu}_{out}}{1 \text{ Btu}_{in}} \times \frac{15.43 \text{ grain}}{\text{g}} = 0.013 \frac{\text{grain}}{\text{dscf}}$$

Since 0.013 grain/dscf is less than 0.1 grain/dscf, compliance with this rule is expected.

Therefore, continued compliance with the requirements of this rule is expected.

12. District Rule 4311 Flares (as amended June 15, 2009)

a. Enclosed Ground Flare (S-2996-4-1)

The purpose of this rule is to limit the emissions of volatile organic compounds (VOCs) and oxides of nitrogen (NO_x) from the operation of flares. This rule is applicable to flares that are owned and operated by Major Sources. Flares operated in municipal solid waste landfills subject to the requirements of Rule 4642 (Solid Waste Disposal Sites) are exempt from this rule (section 4.1). Also Flares that are subject to the requirements of 40 CFR 60 Subpart WWW (Standards of Performance for Municipal Waste Landfills), or Subpart Cc (Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills) are exempt from this rule (section 4.2).

13. District Rule 4601 Architectural Coatings (as amended December 17, 2009)

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

Conditions 23 through 25 on the facility-wide permit (S-2996-0-2 & S-2890-0-2) demonstrate compliance with the requirements of the latest version of this rule.

14. Rule 4642 Solid Waste Disposal Sites (as amended April 6, 1998)

- a. Landfill Gas Collection System (S-2996-1-3)
- b. Enclosed Ground Flare (2996-4-1)

Section 5.1.1 states, the gas collection system shall be operated in such a manner that the surface emissions testing of the landfill shows the concentrations of organic compounds (measured as methane) do not exceed 1,000 ppmv at any point on the surface of the solid waste disposal site or along the gas transfer path of the gas collection system. Sampling ports shall be installed on each wellhead. Surface emissions testing shall be conducted according to Section 6.1.1. Conditions 2 & 3 of the requirements for permit unit S-2996-1-3 assure compliance with this section.

Section 5.1.2 states the landfill gas collection system shall be operated in a manner which maximizes the amount of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. Condition 4 of the requirements for permit unit S-2996-1-3 assures compliance with this section.

Section 5.2 states that a control device shall achieve a VOC destruction efficiency of at least 98 percent by weight, or reduce the VOC concentration to 20 ppmv or less (measured as methane) corrected to 3 percent oxygen. Condition 8 of the requirements for permit unit S-2996-1-3 and condition 3 of the requirements for permit unit S-2996-4-1 assures compliance with this section.

Section 5.2.4 states that an enclosed flare may be used as a control device provided the operator submits, for approval by the APCO, a flare manufacturer's written guarantee and supporting data to demonstrate that the flare achieves the VOC destruction efficiency in Section 5.2.1 or 5.2.2. The operator shall maintain and operate the flare according to the manufacturer's specification, and shall meet the operational requirements in accordance with the applicable provisions of 40 CFR 60.756(b) and 40 CFR 60.18. Condition 5 of the requirements for permit unit S-2996-4-1 assures compliance with this section.

Section 5.3 states that whenever buried soil waste is brought to the surface during the installation or preparation of wells, trenches, piping, or other equipment or when landfill solid waste is excavated or moved, the operator shall cover the excavated solid waste using fresh soil, plastic sheeting, or vapor retarding foam as necessary in order to prevent odorous emissions and to minimize the release of landfill gas. Condition 5 of the requirements for permit unit S-2996-1-3 assures compliance with this section.

Section 5.4 states that during maintenance of the gas collection system and/or control device the following conditions shall be met:

- Notify the APCO by telephone at least 24 hours before performing any maintenance work that requires the system to be shutdown. The notification shall include a description of work, the date work will be performed and the amount of time needed to complete the maintenance work.
- Emissions of landfill gas to the atmosphere shall be minimized during shutdown.
- The gas collection system and/or control device shall not be shut down for more than 144 cumulative hours in any calendar year.

Conditions 6 & 7 of the requirements for permit unit S-2996-1-3 assure compliance with this section.

Section 6.1.1 states the operator shall perform the surface emission testing of solid waste disposal sites in accordance with Sections 6.1.1 and 6.3.1 to insure the requirements of Section 5.1 are met. Prior to testing, the operator shall submit a written Surface Emissions Testing Protocol for approval by the APCO. The testing protocol shall meet the following requirements:

- Testing shall be conducted using a portable hydrocarbon detection test instrument. The instrument shall be calibrated before and after each test using zero air and an approximately 500 parts per million by volume (ppmv) methane based standard calibration gas in accordance with the manufacturer's recommendations. The instrument serial number and instrument calibration data shall be recorded for each calibration and maintained as a permanent record.
- Testing shall be performed by holding the detector probe within three inches of the surface while walking a pattern of parallel paths not more than 90 feet apart over the entire surface area of the solid waste disposal site which contains buried refuse, and along the gas transfer path of the gas collection system. The operator shall monitor the instrument readings at least once every 30 seconds, at normal walking speed (approx 2 miles per hour), record only the readings that exceed 1,000 ppmv, and geographically locate the specific area on the landfill surface where the exceedances occur. Cracks, holes and other breaches in the solid waste disposal site cover, as well as areas where buried waste interfaces with undistributed native soil, shall be tested. Sampling is not required on steep slopes of other areas posing an unavoidable hazard to testing personnel.
- Testing shall be terminated when the average wind speed exceeds five miles per hour or the instantaneous wind speed exceeds ten miles per hour. Average wind speed shall be determined on a ten-minute average using an on-site anemometer. The APCO may approve exceptions to the wind speed requirements for soil waste disposal sites which consistently have winds in excess of these limits. Application for this exemption must be made in writing prior to testing.
- Testing shall be conducted when the solid waste disposal site is dry and no rain is falling. The site is considered dry when there has been no rain for 72 hours prior to testing.

Condition 12 of the requirements for permit unit S-2996-1-3 assures compliance with this section.

Section 6.1.2 states the measurement of the volumetric flow shall be performed using CARB Method 2. Condition 8 of the requirements for permit unit S-2996-4-1 assures compliance with this section.

Section 6.1.4 states the destruction efficiency of the control device shall be evaluated as follows:

- The operator shall measure, in dry standard cubic feet, the volumetric flow rate of the collected landfill gas entering the control device and the volumetric flow rate of the control device effluent gases.

- Simultaneous grab samples shall be taken at the inlet to the control device and in the control device. The VOC concentrations of the samples shall be determined by using USEPA Test Method 25.
- The control device destruction efficiency shall be computed using the following equation:

$$\text{Destruction Efficiency} = [1 - ((\text{VOC}_o \times \text{exhaust flow}) \div (\text{VOC}_i \times \text{inlet flow}))] \times 100\%$$

VOC_o = measured concentration of VOC in the control device exhaust

VOC_i = measured concentration of VOC in the landfill gas entering the control device

Condition 10 of the requirements for permit unit S-2996-4-1 assures compliance with this section.

Section 6.2 states the operator shall maintain the following written records for a period of five years from the date of each entry. The records shall be made available during normal business hours from Monday through Friday, and shall be submitted to the APCO upon request.

- Records of surface emissions tests including: the time; the weather conditions, including precipitation records; area sampled; calibration records; and test results.
- If applicable, emission control device source test reports showing the VOC destruction efficiency.
- If applicable, records of flare combustion temperature including the dates and time of temperature readings, net heating value of landfill gas being combusted, volumetric gas flow rate and flare exit velocity.
- Maintenance-related or other collection system and control device downtime, including individual well shutdown.

Conditions 18, 19, & 21 of the requirements for permit unit S-2996-1-3 assure compliance with this section.

Section 6.3 states that the operator shall notify the District not later than 30 days prior to any compliance test required by Section 6.3.2 and 6.3.2 Compliance test reports shall be submitted to the District within 60 days of completion of testing. Condition 17 of the requirements for permit unit S-2996-1-3 assures compliance with this section.

Section 6.3.1 states surface emissions testing performed to evaluate the effectiveness of a gas collection system shall be conducted at least once in every six-month period per calendar year. Upon completion of two successive semi-annual tests without an exceedance of the 1,000-ppmv standard, other than non-repeatable, momentary readings, the testing

frequency may be reduced to once every calendar year. Subsequent exceedances of the 1,000 ppmv standard shall result in the re-establishment of the semi-annual testing requirement. Condition 11 of the requirements for permit unit S-2996-1-3 assures compliance with this section.

15. Rule 4702 Internal Combustion Engines (as amended August 18, 2011)

a. 1150 HP Landfill Gas Fired Engines (S-2890-1-7 & -2-7)

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) from spark-ignited internal combustion engines.

This rule applies to any spark-ignited internal combustion engine with a rated brake horsepower greater than 50 horsepower and that requires a Permit-to-Operate (PTO).

Section 5.1 requires that the owner of an internal combustion engine shall not operate it in such a manner that results in emissions exceeding the limits in the Engine Emission Limits table below for the appropriate engine type, according to the compliance schedule listed in Section 7.0. An engine shall be restricted by permit condition to emissions limits, in ppmv (corrected to 15% oxygen on a dry basis), that meet or exceed the following applicable emission limits pursuant to Section 5.1 or Section 8.2.

Engine Type	NO _x Emission Limit (ppmv @ 15% O ₂ , dry)	CO Emission Limit (ppmv @ 15% O ₂ , dry)	VOC Emission Limit (ppmv @ 15% O ₂ , dry)
2. Lean Burn			
2. a. 2-Stroke. Gaseous Fueled, < 100 hp	75 or 85% reduction	2,000	750
2. All Other Engines	65 or 90% reduction	2,000	750

The Caterpillar model G3516TA engines have 16 cylinders and are equipped with a turbocharger and aftercooler. They are "lean burn" design, i.e. high excess air and are therefore required to meet the 65 ppmv @ 15% O₂ NO_x emissions limit for "all other engines." Condition 15 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 5.2 requires that all continuous emission monitoring systems (CEMS) emissions measurements shall be averaged over a period of 15 consecutive minutes. Any 15-consecutive minute block average CEMS measurement exceeding the applicable emission limits of this rule shall

constitute a violation of this rule. The IC engines involved with this project do not have a CEMS installed; therefore this section of the Rule is not applicable.

Sections 5.3 and 5.4 list requirements applicable to % reduction for compliance with Section 5.1. The engines are not be limited by permit condition to % reductions and therefore these sections of the Rule is not applicable.

Section 5.5 specifies the grade of gasoline for gasoline fired engines and is therefore not applicable to these LFG-fired IC engine.

Section 5.6 requires that the owner of an engine (excluding those engines subject to Section 4.2 or Section 4.3 unless otherwise specified) subject to the requirements of this rule meet the following requirements:

For each engine with a rated brake horsepower of 1,000 hp or greater and which is permitted to operate more than 2,000 hours per calendar year, or with an external emission control device, shall either install, operate, and maintain continuous monitoring equipment for NO_x, CO, and oxygen, as identified in Rule 1080 (Stack Monitoring), or install, operate, and maintain APCO-approved alternate monitoring. The monitoring system may be a continuous emissions monitoring system (CEMS), a parametric emissions monitoring system (PEMS), or an alternative monitoring system approved by the APCO. APCO-approved alternate monitoring shall consist of one or more of the following:

- Periodic NO_x and CO emission concentrations,
- Engine exhaust oxygen concentration,
- Air-to-fuel ratio,
- Flow rate of reducing agents added to engine exhaust,
- Catalyst inlet and exhaust temperature,
- Catalyst inlet and exhaust oxygen concentration,
- Other operational characteristics.

The applicant has chosen to meet this section of the Rule by proposing a pre-approved alternate emissions monitoring Plan A for engines with and without external controls (but with monthly not quarterly monitoring). Condition 16 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 5.6.6 requires that for each engine, including an engine subject to Section 4.2, install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use an alternative device, method, or technique in determining monthly fuel consumption

provided that the alternative is approved by the APCO. Condition 10 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 5.6.7 requires that for each engine, the permittee shall implement the Inspection and Monitoring (I&M) plan submitted to and approved by the APCO pursuant to Section 6.5. The applicant has submitted an I&M program and the implementation of this plan will be explained in detail in the section that covers Section 6.5 of this Rule.

Section 5.6.8 requires that for each engine, collect data through the I&M plan in a form approved by the APCO. The applicant has submitted an I&M program and the implementation of this plan will be explained in detail in the section that covers Section 6.5 of this Rule.

Section 5.6.9 requires that each engine, use a portable NO_x analyzer to take NO_x emission readings to verify compliance with the emission requirements of Section 5.1 or Section 8.2 during each calendar quarter in which a source test is not performed. All emission readings shall be taken with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. All NO_x emissions readings shall be reported to the APCO in a manner approved by the APCO. NO_x emission readings taken pursuant to this section shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. Condition 18 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.1 requires that the owner of an engine subject to the requirements of this rule shall submit to the APCO an emission control plan of all actions to be taken to satisfy the emission requirements of Section 5.1 and the compliance schedules of Section 7.0. Such emission control plan shall contain a list with the following for each permitted engine:

- Permit-to-Operate number
- Engine manufacturer
- Model designation
- Rated brake horsepower
- Type of fuel and type of ignition
- Combustion type: rich-burn or lean-burn
- Total hours of operation in the previous one-year period, including typical daily operating schedule

- Fuel consumption (cubic feet for gas or gallons for liquid) for the previous one-year period
- Stack modifications to facilitate continuous in-stack monitoring and to facilitate source testing
- Type of control to be applied, including in-stack monitoring specifications
- Applicable emission limits
- Documentation showing existing emissions of NO_x, VOC, and CO, and
- Date that the engine will be in full compliance with Rule 4702.

Section 6.1.2 requires that the emission control plan shall identify the type of emission control device or technique to be applied to each engine and a construction/removal schedule, or shall provide support documentation sufficient to demonstrate that the engine is in compliance with the emission requirements of this rule.

The applicant has submitted all the required information for Section 6.1 previously for the subject IC engines.

Section 6.2 requires that except for engines subject to Section 4.0, the owner of an engine subject to the requirements of this rule shall maintain an engine operating log to demonstrate compliance with this rule. This information shall be retained for a period of at least five years, shall be readily available, and be made available to the APCO upon request. The engine operating log shall include, on a monthly basis, the following information:

- Total hours of operation,
- Type and quantity (cubic feet of gas or gallons of liquid) of fuel used,
- Maintenance or modifications performed,
- Monitoring data,
- Compliance source test results, and
- Any other information necessary to demonstrate compliance with this rule.

Condition 25 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.2.2 requires that the data collected pursuant to the requirements of Section 5.6 shall be maintained for at least five years, shall be readily available, and made available to the APCO upon request. Condition 26 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.3 requires that the owner of an engine subject to the emission limits in Section 5.1 or the requirements of Section 8.2, shall demonstrate

compliance with applicable limits by the applicable date specified in Section 7.6 and at least once every 24 months thereafter, in accordance with the test methods in Section 6.4 and. Conditions 20 through 23 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.4 requires that the compliance with the requirements of Section 5.0 shall be determined in accordance with the following test procedures or any other method approved by EPA and the APCO:

- Oxides of nitrogen - EPA Method 7E, or ARB Method 100.
- Carbon monoxide - EPA Method 10, or ARB Method 100.
- Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.
- Volatile organic compounds - EPA Method 25A or 25B, or ARB Method 100.
- Operating horsepower determination - any method approved by EPA and the APCO.

Condition 21 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.5 requires that the owner of an engine subject to the emission limits in Section 5.1 or the requirements of Section 8.2, shall submit to the APCO for approval, an I&M plan that specifies all actions to be taken to satisfy the following requirements and the requirements of Section 5.6. The actions to be identified in the I&M plan shall include, but are not limited to, the following:

Section 6.5.2 specifies procedures requiring the owner or operator to establish ranges for control equipment parameters, engine operating parameters, and engine exhaust oxygen concentrations that source testing has shown result in pollutant concentrations within the rule limits.

Section 6.5.3 specifies procedures for monthly inspections as approved by the APCO. Applicant has proposed monthly monitoring of NO_x and CO concentrations using a portable analyzer to ensure the requirements of sections 6.5.2 and 6.5.3 are met.

Condition 16 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.5.4 specifies procedures for the corrective actions on the noncompliant parameter(s) that the owner or operator will take when an engine is found to be operating outside the acceptable range for control equipment parameters, engine operating parameters, and engine exhaust NO_x, CO, VOC, or oxygen concentrations.

Section 6.5.5 specifies procedures for the owner or operator to notify the APCO when an engine is found to be operating outside the acceptable range for control equipment parameters, engine operating parameters, and engine exhaust NO_x, CO, VOC, or oxygen concentrations.

Section 6.5.6 specifies procedures for preventive and corrective maintenance performed for the purpose of maintaining an engine in proper operating condition. The applicant has proposed that the engines will be operated and maintained per the manufacturer's specifications.

Conditions 17 & 18 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.5.7 specifies procedures and a schedule for using a portable NO_x analyzer to take NO_x emission readings pursuant to Section 5.6.9.

Section 6.5.8 specifies procedures for collecting and recording required data and other information in a form approved by the APCO including, but not limited to, data collected through the I&M plan and the monitoring systems described in Sections 5.6.1 and 5.6.2. Data collected through the I&M plan shall have retrieval capabilities as approved by the APCO.

Condition 19 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Section 6.5.9 specifies procedures for revising the I&M plan. The I&M plan shall be updated to reflect any change in operation. The I&M plan shall be updated prior to any planned change in operation. An engine owner that changes significant I&M plan elements must notify the District no later than seven days after the change and must submit an updated I&M plan to the APCO no later than 14 days after the change for approval. The date and time of the change to the I&M plan shall be recorded in the engine operating log. For new engines and modifications to existing engines, the I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit-to-Operate. The owner of an engine may request a change to the I&M plan at any time. The applicant has proposed that they will modify their I&M plan per this section of the Rule. Condition 25 of the requirements for permit units S-2890-1-7 & -2-7 assure compliance with this section.

Compliance is expected.

16. District Rule 4801 Sulfur Compounds (as amended December 17, 1992)

a. Enclosed Ground Flare (S-2996-4-1)

District Rule 4801 has been submitted to the EPA to replace Tulare County Rule 407, which is in the SIP. District Rule 4801 is as stringent as Tulare County Rule 407, as shown below in Table 3.

Table 3 - Comparison of District Rule 4801 and Tulare County Rule 407

REQUIREMENTS	District Rule 4801	Tulare County Rule 407
a person shall not discharge into the atmosphere sulfur compounds exceeding in concentration at the point of discharge 0.2 percent by volume calculated as sulfur dioxide on a dry basis averaged over 15 consecutive minutes.	✓	✓
EPA Method 8 and ARB Method 1-100 shall be used to determine such emissions.	✓	

The purpose of this rule is to limit the emissions of sulfur compounds. The limit is that sulfur compound emissions (as SO₂) shall not exceed 0.2% by volume. Using the ideal gas equation, the sulfur compound emissions are calculated as follows:

The ratio of the volume of the SO_x exhaust to the entire exhaust for one MMBtu of fuel combusted is:

$$\text{Volume of SO}_x = v = \frac{n \cdot R \cdot T}{P}$$

Where:

- n = number of moles of SO_x produced per MMBtu of fuel.
- Weight of SO_x as SO₂ is 64 lb/(1b-mol)
- $n = \frac{0.01 \text{ lb}}{\text{MMBtu}} \times \frac{\text{lb-mol}}{64 \text{ lb}} = 0.00015(\text{lb-mol})$
- $R = \frac{0.7302 \text{ ft}^3}{(\text{lb-mol})^\circ\text{R}}$
- T = 500 °R
- P = 1 atm

Thus, volume of SO_x per MMBtu is:

$$V = \frac{0.00015 (\text{lb-mol}) \cdot \frac{0.7302 \text{ ft}^3}{(\text{lb-mol})^\circ\text{R}} \cdot 500^\circ\text{R}}{1 \text{ atm}} = 0.055 \text{ ft}^3$$

Since the total volume of exhaust per MMBtu is 9,690 scf, the ratio of SO_x volume to exhaust volume is

$$\frac{0.0055}{9690} = 5.6 \frac{\text{parts}}{\text{million}} < 2,000 \text{ ppmv (or 0.2\%)}$$

Since 0.00056% by volume is less than 0.2% by volume, compliance with District Rule 4801 is expected.

b. 1150 HP Landfill Gas Fired Engines (S-2890-1-7 & -2-7)

$$\text{Volume SO}_2 = nRT/P$$

n = moles SO₂

T (standard temperature) = 60 °F or 520 °R

$$R \text{ (universal gas constant)} = \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot \text{°R}}$$

$$70.03 \frac{\text{lb} \cdot \text{SO}_2}{\text{MMscf}_{\text{gas}}} \times \frac{1 \text{ scf}_{\text{gas}}}{450 \text{ Btu}} \times \frac{1 \text{ MMBtu}}{9,800 \text{ scf}_{\text{exhaust}}} \times \frac{1 \text{ lb} \cdot \text{mol}}{64 \text{ lb} \cdot \text{SO}_2} \times \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot \text{°R}} \times \frac{520 \text{ °R}}{14.7 \text{ psi}} \times 1,000,000 \text{ ppm} = 94.17 \text{ ppmv}$$

Since 94.17 ppmv is ≤ 2000 ppmv, the engines are expected to comply with Rule 4801.

17. District Rules 8021, 8031, 8041, 8051, 8061, (as amended August 19, 2004) and 8071 (as amended September 18, 2004) Fugitive Dust (PM₁₀)Emissions

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

These rules contain requirements for the control of fugitive dust. These requirements apply to a variety of sources, including: construction, demolition, excavation, extraction, and water mining activities; outdoor storage piles; paved and unpaved roads. Conditions 29, 30, 31, 32, 33 and 34 of the facility wide requirements (S-2996-0-2 & S-2890-0-2) assure compliance with these rules.

18. 40 CFR 82 Subpart B & F - Stratospheric Ozone

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

These are applicable requirements from Title VI of the CAA (Stratospheric Ozone) which apply to all sources. The requirements pertain to air conditioners, chillers, and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners. Conditions 27 & 28 of the facility wide requirements (S-2996-0-2 & S-2890-0-2) address these requirements.

19. 40 CFR 61, Subpart M - Asbestos

a. Facility Wide Requirements (S-2996-0-2 & S-2890-0-2)

These are applicable requirements from the National Emissions Standards for Hazardous Air Pollutants, which apply to all sources. The requirements pertain to asbestos removal and disposal from renovated or demolished

structures. Compliance with these requirements is assured by condition 35 of the facility wide requirements (S-2996-0-2 & S-2890-0-2).

20. 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

§63.6585 states an owner or operator is subject to this subpart if it owns or operates a stationary RICE at a major or area source of HAP emissions.

§63.6585(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year.

§63.6585(c) An area source of HAP emissions is a source that is not a major source.

- This facility is an area source of HAP emissions since it is not a major source of HAP per §63.6585(b).

§63.6590(a)(1)(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

- The engines in this facility commenced construction before June 12, 2006 and are existing.

§63.6595(a)(1) If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013.

a. 1150 HP Landfill Gas Fired Engines (S-2890-1-7 & -2-7)

- Conditions 28 and 29 on the proposed permit comply with this rule.

21. CFR Part 64 Compliance Assurance Monitoring

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet all three following criteria:

- 1) the unit must have an emission limit for the pollutant;
 - 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
 - 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.
- a. Gas Collection System (S-2996-1-3)
 - b. Enclosed Ground Flare (S-2996-4-1)

The source emission unit subject to requirements of CAM is Visalia landfill (S-3729). Since Visalia landfill is subject to emission limitation(s) or standard(s) for the Municipal Solid Waste Landfill are covered by 40 CFR 60 NSPS Subpart WWW and 40 CFR 63 MACT Subpart AAAA. Therefore these permit units are exempt from CAM requirements.

- C. 1150 HP Landfill Gas Fired Engines (S-2890-1-7 & -2-7)

These engines are not equipped with any add-on controls. Therefore these permit units are not subject to CAM requirements.

X. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Operating Permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

The applicant has not requested to utilize any model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The applicant has requested a broad permit shield for all of requirements the facility is subject. Per District policy such broad permit shields can not be granted.

XI. PERMIT CONDITIONS

See attached Draft Initial TV Operating Permits.

San Joaquin Valley Air Pollution Control District

FACILITY: S-2890-0-2

EXPIRATION DATE: 03/31/2015

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1 and Tulare County Rule 111] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0 and Tulare County Rule 111] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: MM TULARE ENERGY, LLC
Location: VISALIA LANDFILL, 32982 ROAD 80, VISALIA, CA 93291
S-2890-0-2 : Aug 29 2012 3:23PM - SRANK

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
40. NEO Tulare LLC (S-2996) and MM Tulare LLC (S-2890) are part of the same stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
41. On Month day, year, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days of the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2890-1-7

EXPIRATION DATE: 03/31/2015

SECTION: SE5 **TOWNSHIP:** 18S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

COMPLIANT DORMANT 1150 HP LEAN BURN CATERPILLAR MODEL G3516TA LEAN-BURN LANDFILL GAS-FIRED IC ENGINE SERVED BY A 55 GALLON DRUM WITH ACTIVATED CARBON (SHARED WITH PERMIT UNIT S-2890-2) USED AS A CRANKCASE EMISSIONS CONTROL DEVICE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modifications, except for changes specified in the conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
4. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
7. Engine shall be equipped with a turbocharger. [District Rule 2201] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Engine shall be equipped with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
10. This engine shall be equipped with a nonresettable fuel meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rule 4702, 5.6.6] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Maintenance (I&M) plan submitted to the District. [District Rule 4702, 6.5.5] Federally Enforceable Through Title V Permit
12. IC engine shall burn landfill gas from landfill gas collection system S-2996-1 and a maximum of 25% natural gas for combustion stabilization. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Landfill gas H2S content shall not exceed 75 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. IC engine VOC destruction/treatment efficiency shall be at least 98% by weight or reduce the VOC concentration to 20 ppmv or less (as methane) @ 3% O₂. [District Rule 4642] Federally Enforceable Through Title V Permit
15. Emission rates shall not exceed any of the following: PM₁₀: 0.19 lb/hr; NO_x: 1.029 g/hp-hr or 65 ppmv @ 15% O₂; VOC: 0.55 g/hp-hr or 750 ppmv @ 15% O₂; or CO: 3.07 g/hp-hr or 2000 ppmv @ 15% O₂. [District Rules 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
16. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702] Federally Enforceable Through Title V Permit
17. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702] Federally Enforceable Through Title V Permit
18. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702] Federally Enforceable Through Title V Permit
20. NO_x, CO, and VOC emissions shall be measured (source tested) not less than once every 24 months. [District Rule 4701] Federally Enforceable Through Title V Permit
21. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
24. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702, 6.5.8] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

25. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, type of fuel burned and any other information necessary to demonstrate compliance. [District Rule 4702, 6.2.1] Federally Enforceable Through Title V Permit
26. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 6.2.2] Federally Enforceable Through Title V Permit
27. NEO Tulare Energy LLC/Tulare County must maintain Permit to Operate S-2996-1-0 for the landfill gas collection system and meet all applicable Rule 4642 requirements. [District Rule 2080] Federally Enforceable Through Title V Permit
28. By October 19, 2012, the owner/operator shall submit an Authority to Construct (ATC) permit application to the District to comply with 40 CFR 63 Subpart ZZZZ. [District Rule 2010] Federally Enforceable Through Title V Permit
29. On and after October 19, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ. [40 CFR 63.6585 and 63.6595(a)] Federally Enforceable Through Title V Permit
30. Landfill gas combusted in the engine shall be tested for H₂S content on a quarterly basis using draeger tubes. If compliance is shown for two consecutive quarters, the testing frequency may be changed to annual. Quarterly testing shall resume if any annual test shows noncompliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2890-2-7

EXPIRATION DATE: 03/31/2015

SECTION: SE 5 **TOWNSHIP:** 18S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

COMPLIANT DORMANT 1150 HP LEAN BURN CATERPILLAR MODEL G3516TA LEAN-BURN LANDFILL GAS-FIRED IC ENGINE SERVED BY A 55 GALLON DRUM WITH ACTIVATED CARBON (SHARED WITH PERMIT UNIT S-2890-1) USED AS A CRANKCASE EMISSIONS CONTROL DEVICE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modifications, except for changes specified in the conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
4. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
7. Engine shall be equipped with a turbocharger. [District Rule 2201] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Engine shall be equipped with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
10. This engine shall be equipped with a nonresettable fuel meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rule 4702, 5.6.6] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Maintenance (I&M) plan submitted to the District. [District Rule 4702, 6.5.5] Federally Enforceable Through Title V Permit
12. IC engine shall burn landfill gas from landfill gas collection system S-2996-1 and a maximum of 25% natural gas for combustion stabilization. [District Rule 2201] Federally Enforceable Through Title V Permit
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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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14. IC engine VOC destruction/treatment efficiency shall be at least 98% by weight or reduce the VOC concentration to 20 ppmv or less (as methane) @ 3% O₂. [District Rule 4642] Federally Enforceable Through Title V Permit
15. Emission rates shall not exceed any of the following: PM₁₀: 0.19 lb/hr; NO_x: 1.029 g/hp-hr or 65 ppmv @ 15% O₂; VOC: 0.55 g/hp-hr or 750 ppmv @ 15% O₂; or CO: 3.07 g/hp-hr or 2000 ppmv @ 15% O₂. [District Rules 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
16. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702] Federally Enforceable Through Title V Permit
17. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702] Federally Enforceable Through Title V Permit
18. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702] Federally Enforceable Through Title V Permit
20. NO_x, CO, and VOC emissions shall be measured (source tested) not less than once every 24 months. [District Rule 4701] Federally Enforceable Through Title V Permit
21. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
24. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702, 6.5.8] Federally Enforceable Through Title V Permit

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26. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 6.2.2] Federally Enforceable Through Title V Permit
27. NEO Tulare Energy LLC/Tulare County must maintain Permit to Operate S-2996-1-0 for the landfill gas collection system and meet all applicable Rule 4642 requirements. [District Rule 2080] Federally Enforceable Through Title V Permit
28. By October 19, 2012, the owner/operator shall submit an Authority to Construct (ATC) permit application to the District to comply with 40 CFR 63 Subpart ZZZZ. [District Rule 2010] Federally Enforceable Through Title V Permit
29. On and after October 19, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ. [40 CFR 63.6585 and 63.6595(a)] Federally Enforceable Through Title V Permit
30. Landfill gas combusted in the engine shall be tested for H₂S content on a quarterly basis using draeger tubes. If compliance is shown for two consecutive quarters, the testing frequency may be changed to annual. Quarterly testing shall resume if any annual test shows noncompliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

FACILITY: S-2996-0-2

EXPIRATION DATE: 03/31/2013

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1 and Tulare County Rule 111] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0 and Tulare County Rule 111] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: NEO TULARE LLC/TULARE COUNTY

Location: VISALIA LANDFILL, CA

S-2996-0-2 : Aug 29 2012 3:26PM - SRANK

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
40. NEO Tulare LLC (S-2996) and MM Tulare LLC (S-2890) are part of the same stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
41. On Month day, year, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days of the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2996-1-3

EXPIRATION DATE: 03/31/2013

EQUIPMENT DESCRIPTION:

LANDFILL GAS COLLECTION SYSTEM WITH GAS COLLECTION WELLS, GAS PIPING, BLOWER(S), AND KNOCKOUT VESSEL(S)

PERMIT UNIT REQUIREMENTS

1. Sampling ports shall be installed on each gas collection well head. [District Rule 4642] Federally Enforceable Through Title V Permit
2. The gas collection system shall be operated such that the concentration of total organic compounds (as CH₄) shall not exceed 1000 ppmv at any point on the surface, along the gas transfer path of the gas collection system. [District Rule 4642] Federally Enforceable Through Title V Permit
3. The gas collection system shall be operated in a manner which maximizes the amount of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. [District Rule 4642] Federally Enforceable Through Title V Permit
4. Excavated solid waste shall be covered using fresh soil, plastic sheeting, or vapor retarding foam as necessary to prevent odorous emissions and to minimize the release of landfill gas as described in Rule 4642 subsection 5.3. [District Rule 4642] Federally Enforceable Through Title V Permit
5. The permittee shall notify the APCO by telephone at least 24 hours before performing any maintenance work that requires the system to be shutdown. The notification shall include a description of work, the date work will be performed and the amount of time needed to complete the maintenance work. [District Rule 4642] Federally Enforceable Through Title V Permit
6. During maintenance of the gas collection system and/or incineration device(s), emissions of landfill gas shall be minimized during shutdown, and gas collection system and control device shall not be shutdown for more than 144 cumulative hours in any calendar year. [District Rule 4642] Federally Enforceable Through Title V Permit
7. All landfill gas collected by a gas collection system shall be controlled by a control device with a VOC destruction efficiency of at least 98% or reduce the VOC concentration to 20 ppmv or less (measured as methane) corrected to 3% oxygen. [District Rules 2201 and 4642] Federally Enforceable Through Title V Permit
8. Landfill gas sulfur content shall not exceed 75 ppmv (as H₂S). [District Rule 2201] Federally Enforceable Through Title V Permit
9. Permittee shall notify the District no later than 30 days prior to any surface testing. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Surface emission testing per Rule 4642 subsection 6.1.1 shall be performed once every six month period per calendar year. Upon completion of two consecutive semi-annual tests without an exceedance of the 1000 ppmv standard, testing may be performed every calendar year per Rule 4642 subsection 6.3.1. [District Rule 4642] Federally Enforceable Through Title V Permit
11. Prior to testing of surface emissions, the operator shall submit a written Surface Emissions Testing Protocol for approval by the APCO. [District Rule 4642] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Surface emissions testing shall be conducted using a portable hydrocarbon detection test instrument. The instrument shall be calibrated before and after each test using zero air and an approximately 500 parts per million by volume (ppmv) methane based standard calibration gas in accordance with the manufacturer's recommendations. The instrument serial number and instrument calibration data shall be recorded for each calibration and maintained as a permanent record. [District Rule 4642] Federally Enforceable Through Title V Permit
13. Surface emissions testing shall be performed by holding the detector probe within three inches of the surface while walking a pattern of parallel paths not more than 90 feet apart over the entire surface area of the solid waste disposal site which contains buried refuse, and along the gas transfer path of the gas collection system. The operator shall monitor the instrument readings at least once every 30 seconds, at normal walking speed (approximately 2 miles per hour), record only the readings that exceed 1,000 ppmv, and geographically locate the specific area on the landfill surface where the exceedance occur. Cracks, holes and other breeches in the solid waste disposal site cover, as well as areas where buried waste interfaces with undistributed native soil, shall be tested. Sampling is not required on steep slopes of other areas posing an unavoidable hazard to testing personnel. [District Rule 4642] Federally Enforceable Through Title V Permit
14. Surface emissions testing shall be terminated when the average wind speed exceeds five miles per hour or the instantaneous wind speed exceeds ten miles per hour. Average wind speed shall be determined on a ten minute average using an on-site anemometer. The APCO may approve exceptions to the wind speed requirements for soil waste disposal sites which consistently have winds in excess of these limits. Application for this exemption must be made in writing prior to testing. [District Rule 4642] Federally Enforceable Through Title V Permit
15. Surface emissions testing shall be conducted when the solid waste disposal site is dry and no rain is falling. The site is considered dry when there has been no rain for 72 hours prior to testing. [District Rule 4642] Federally Enforceable Through Title V Permit
16. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days after testing. [District Rule 2201 & 4642] Federally Enforceable Through Title V Permit
17. Permittee shall maintain records of surface emission tests including: date and time, weather conditions, including precipitation records, areas sampled, calibration records, and test results. [District Rule 4642] Federally Enforceable Through Title V Permit
18. Permittee shall maintain records of maintenance related to gas collection system and control device downtime, including individual well shutdown. [District Rule 4642] Federally Enforceable Through Title V Permit
19. Landfill gas combusted in the flare shall be tested for H₂S content on a quarterly basis using draeger tubes. If compliance is shown for two consecutive quarters, the testing frequency may be changed to annual. Quarterly testing shall resume if any annual test shows noncompliance. [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
20. Permittee shall maintain such records for a period of five years from the date of each entry and shall make such records readily available for District inspection upon request. [District Rule 1070 & District Rule 2520, 9,4,2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2996-4-1

EXPIRATION DATE: 03/31/2013

SECTION: SE05 **TOWNSHIP:** 18S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

54.0 MMBTU/HR LANDFILL GAS FIRED ENCLOSED GROUND FLARE WITH THREE 25 BHP CENTRIFUGAL GAS BLOWERS; AUTOMATIC DAMPERS, AUTOMATIC SHUTDOWN, FLAME ARRESTOR, CONDENSATE INJECTION/ATOMIZATION SYSTEM, AND CONTINUOUSLY RECORDING TEMPERATURE SENSORS

PERMIT UNIT REQUIREMENTS

1. The flare shall incinerate collected landfill gas and condensate from permit S-2996-1. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The flare shall achieve a VOC destruction efficiency of at least 98% by weight, or reduce the VOC concentration (measured as methane) to less than or equal to 20 ppmv @ 3% O₂. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The flare shall utilize air-assist, as required, to operate in a smokeless manner. [District Rules 2201, 4101, and 4201] Federally Enforceable Through Title V Permit
4. The flare shall be operated in accordance with the applicable provisions of 40 CFR 60.756(b) and 40 CFR 60.18 [District Rule 4642] Federally Enforceable Through Title V Permit
5. Emissions from the flare shall not exceed any of the following limits: 0.03 lb PM₁₀/MMBtu, 0.01 lb SO_x/MMBtu, 0.06 lb NO_x/MMBtu, 0.13 lb CO/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Source testing to demonstrate VOC destruction efficiency or VOC emission concentration limits shall be conducted at least once every 12 months. [District Rule 2520, 9.32] Federally Enforceable Through Title V Permit
7. For source testing purpose, the operator shall measure, in dry standard cubic feet, the volumetric flow rate of the collected landfill gas entering the flare and the volumetric flow rate of the flare effluent gases using carb method 2. [District Rule 4642] Federally Enforceable Through Title V Permit
8. For source testing purpose, simultaneous grab samples shall be taken at the inlet to the flare and in the exhaust of the control device. The VOC concentrations of the samples shall be determined by using EPA Test Method 25 referenced as methane [District Rule 4642] Federally Enforceable Through Title V Permit
9. The destruction efficiency of the flare shall be calculated using the following equation: Destruction Efficiency = $[1 - ((a \times b) / (c \times d))] \times 100\%$, where a = measured concentration of VOC in the flare exhaust, b = exhaust flow of flare, c = measured concentration of VOC in the landfill gas entering the flare, and d = inlet flow of flare. [District Rule 4642] Federally Enforceable Through Title V Permit
10. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Permittee shall record flare source test reports showing VOC destruction/treatment efficiency. [District Rule 4642] Federally Enforceable Through Title V Permit
12. Permittee shall maintain daily records of landfill gas flow rate to the flare. [District Rule 4642] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. Permittee shall maintain records of maintenance related to gas collection system and control device downtime, including individual well shutdown. [District Rule 4642] Federally Enforceable Through Title V Permit
14. Permittee shall maintain such records for a period of five years from the date of each entry and shall make such records readily available for District inspection upon request. [District Rule 1070 & District Rule 2520, 9,4,2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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Attachment A

Equipment Listing

Permit#	Equipment Description
S-2890-1-6	1150 HP LEAN BURN CATERPILLAR MODEL G3516TA LEAN-BURN LANDFILL GAS-FIRED IC ENGINE SERVED BY A 55 GALLON DRUM WITH ACTIVATED CARBON (SHARED WITH PERMIT UNIT S-2890-2) USED AS A CRANKCASE EMISSIONS CONTROL DEVICE POWERING AN ELECTRICAL GENERATOR
S-2890-2-6	1150 HP LEAN BURN CATERPILLAR MODEL G3516TA LEAN-BURN LANDFILL GAS-FIRED IC ENGINE SERVED BY A 55 GALLON DRUM WITH ACTIVATED CARBON (SHARED WITH PERMIT UNIT S-2890-1) USED AS A CRANKCASE EMISSIONS CONTROL DEVICE POWERING AN ELECTRICAL GENERATOR

Permit#	Equipment Description
S-2996-1-2	LANDFILL GAS COLLECTION SYSTEM WITH GAS COLLECTION WELLS, GAS PIPING, BLOWER(S), AND KNOCKOUT VESSEL(S)
S-2996-4-0	54.0 MMBTU/HR LANDFILL GAS FIRED ENCLOSED GROUND FLARE WITH THREE 25 BHP CENTRIFUGAL GAS BLOWERS; AUTOMATIC DAMPERS, AUTOMATIC SHUTDOWN, FLAME ARRESTOR, CONDENSATE INJECTION/ATOMIZATION SYSTEM, AND CONTINUOUSLY RECORDING TEMPERATURE SENSORS

Attachment B

Exempt Equipment

The following exempt equipment was identified by the applicant on TVFORM-003,
 Insignificant Activities

Exemption Category	Rule 2020 Citation	
Structure or incinerator assoc. with a structure designed as a dwelling for 4 families or less	4.1	
Locomotives, airplanes, and watercraft used to transport passengers or freight	4.4	
Natural gas or LPG-fired boilers or other indirect heat transfer units of 5 MMBtu/hr or less	6.1.1	
Piston-type i.c.engine with maximum continuous rating of 50 braking horsepower (bhp) or less	6.1.2	
Gas turbine engines with maximum heat input rating of 3 MMBtu/hr or less	6.1.3	
Space heating equipment other than boilers	6.1.4	
Cooling towers with a circulation rate less than 10,000 gal/min, and that are not used for cooling of process water, or water from barometric jets or condensers++	6.2	
Use of less than 2 gal/day of graphic arts materials	6.3	
Equipment at retail establishments used to prepare food for human consumption	6.4.1	
Ovens at bakeries with total daily production less than 1,000 pounds and exempt by sec. 6.1.1	6.4.3	
Equipment used exclusively for extruding or compression molding of rubber or plastics, where no plastisizer or blowing agent is used	6.5	
Containers used to store clean produced water	6.6.1	
Containers ≤100 bbl used to store oil with specific gravity ≥ 0.8762	6.6.2	
Containers ≤ 100 bbl installed prior to 6/1/89 used to store oil with specific gravity ≥ 0.8762	6.6.3	
Containers with a capacity ≤ 250 gallons used to store org-anic material where the actual storage temperature <150 F	6.6.4	✓
Containers used to store unheated organic material with an initial boiling point ≥ 302 F	6.6.5	
Containers used to store fuel oils or non-air-blown asphalt with specific gravity ≥0.9042	6.6.6	
Containers used to store petroleum distillates used as motor fuel with specific gravity ≥ 0.8251	6.6.7	✓

Exemption Category	Rule 2020 Citation	
Containers used to store refined lubricating oils	6.6.8	✓
Unvented pressure vessels used exclusively to store liquefied gases or assoc with exempt equipment	6.6.9 or 6.13	
Portable tanks used exclusively to store produced fluids for ≤ six months	6.6.10	✓
Mobile transport tanks on delivery vehicles of VOCs	6.6.11	
Loading racks used for the transfer of less than 4,000 gal/day of unheated organic material with initial boiling point ≥ 302 F or of fuel oil with specific gravity ≥ 0.8251	6.7.1.1	
Loading racks used for the transfer of asphalt, crude or residual oil stored in exempt tanks, or crude oil with specific gravity ≥ 0.8762	6.7.1.2	
Equipment used exclusively for the transfer of refined lubricating oil	6.7.2	
Equipment used to apply architectural coatings	6.8.1	✓
Unheated, non-conveyorized cleaning equipment with < 10 ft ² open area; using solvents with initial boiling point ≥ 248 F; and < 25 gal/yr. evaporative losses	6.9	
Brazing, soldering, or welding equipment	6.10	
Equipment used to compress natural gas	6.11	
Fugitive emissions sources assoc. with exempt equipment	6.12	
Pits and Ponds as defined in Rule 1020	6.15	
On-site roadmix manufacturing and the application of roadmix as a road base material	6.17	
Emissions less than 2 lb/day from units not included above	6.19	
Venting PUC quality natural gas from for sole purpose of pipeline and compressor repair and or maintenance	7.2	
Non-structural repairs & maintenance to permitted equipment	7.3	✓
Detonation of explosives ≤ 100 lb/day and 1,000 lb/year	7.4	

ATTACHMENT C

PERMITS TO OPERATE (PTOs)

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2890-1-8

EXPIRATION DATE: 03/31/2015

SECTION: SE5 **TOWNSHIP:** 18S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

COMPLIANT DORMANT 1150 HP LEAN BURN CATERPILLAR MODEL G3516TA LEAN-BURN LANDFILL GAS-FIRED IC ENGINE SERVED BY A 55 GALLON DRUM WITH ACTIVATED CARBON (SHARED WITH PERMIT UNIT S-2890-2) USED AS A CRANKCASE EMISSIONS CONTROL DEVICE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modifications, except for changes specified in the conditions below. [District Rule 2010]
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
4. While dormant, normal source testing shall not be required. [District Rule 2080]
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
7. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
8. Engine shall be equipped with a turbocharger. [District Rule 2201]
9. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
10. Engine shall be equipped with an aftercooler or intercooler. [District Rule 2201]
11. This engine shall be equipped with a nonresettable fuel meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rule 4702, 5.6.6]
12. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Maintenance (I&M) plan submitted to the District. [District Rule 4702, 6.5.5]
13. IC engine shall burn landfill gas from landfill gas collection system S-2996-1 and a maximum of 25% natural gas for combustion stabilization. [District Rule 2201]
14. Landfill gas H₂S content shall not exceed 75 ppmv. [District Rule 2201]
15. IC engine VOC destruction/treatment efficiency shall be at least 98% by weight or reduce the VOC concentration to 20 ppmv or less (as methane) @ 3% O₂. [District Rule 4642]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. Emission rates shall not exceed any of the following: PM10: 0.19 lb/hr; NOx: 1.029 g/hp-hr or 65 ppmv @ 15% O₂; VOC: 0.55 g/hp-hr or 750 ppmv @ 15% O₂; or CO: 3.07 g/hp-hr or 2000 ppmv @ 15% O₂. [District Rules 2201,4701, and 4702]
17. The permittee shall monitor and record the stack concentration of NOx, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702]
18. If either the NOx or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702]
19. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702]
20. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NOx and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702]
21. NOx, CO, and VOC emissions shall be measured (source tested) not less than once every 24 months. [District Rule 4701]
22. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rules 1081 and 4701]
23. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
25. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702, 6.5.8]
26. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, type of fuel burned and any other information necessary to demonstrate compliance. [District Rule 4702, 6.2.1]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 6.2.1]
28. NEO Tulare Energy LLC/Tulare County must maintain Permit to Operate S-2996-1-0 for the landfill gas collection system and meet all applicable Rule 4642 requirements. [District Rule 2080]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2890-2-8

EXPIRATION DATE: 03/31/2015

SECTION: SE 5 **TOWNSHIP:** 18S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

COMPLIANT DORMANT 1150 HP LEAN BURN CATERPILLAR MODEL G3516TA LEAN-BURN LANDFILL GAS-FIRED IC ENGINE SERVED BY A 55 GALLON DRUM WITH ACTIVATED CARBON (SHARED WITH PERMIT UNIT S-2890-1) USED AS A CRANKCASE EMISSIONS CONTROL DEVICE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modifications, except for changes specified in the conditions below. [District Rule 2010]
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
4. While dormant, normal source testing shall not be required. [District Rule 2080]
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
7. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
8. Engine shall be equipped with a turbocharger. [District Rule 2201]
9. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
10. Engine shall be equipped with an aftercooler or intercooler. [District Rule 2201]
11. This engine shall be equipped with a nonresettable fuel meter. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rule 4702, 5.6.6]
12. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Maintenance (I&M) plan submitted to the District. [District Rule 4702, 6.5.5]
13. IC engine shall burn landfill gas from landfill gas collection system S-2996-1 and a maximum of 25% natural gas for combustion stabilization. [District Rule 2201]
14. Landfill gas H₂S content shall not exceed 75 ppmv. [District Rule 2201]
15. IC engine VOC destruction/treatment efficiency shall be at least 98% by weight or reduce the VOC concentration to 20 ppmv or less (as methane) @ 3% O₂. [District Rule 4642]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. Emission rates shall not exceed any of the following: PM10: 0.19 lb/hr; NOx: 1.029 g/hp-hr or 65 ppmv @ 15% O₂; VOC: 0.55 g/hp-hr or 750 ppmv @ 15% O₂; or CO: 3.07 g/hp-hr or 2000 ppmv @ 15% O₂. [District Rules 2201,4701, and 4702]
17. The permittee shall monitor and record the stack concentration of NOx, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702]
18. If either the NOx or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702]
19. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702]
20. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NOx and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702]
21. NOx, CO, and VOC emissions shall be measured (source tested) not less than once every 24 months. [District Rule 4701]
22. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rules 1081 and 4701]
23. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
25. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702, 6.5.8]
26. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, type of fuel burned and any other information necessary to demonstrate compliance. [District Rule 4702, 6.2.1]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 6.2.1]
28. NEO Tulare Energy LLC/Tulare County must maintain Permit to Operate S-2996-1-0 for the landfill gas collection system and meet all applicable Rule 4642 requirements. [District Rule 2080]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2996-1-2

EXPIRATION DATE: 03/31/2013

EQUIPMENT DESCRIPTION:

LANDFILL GAS COLLECTION SYSTEM WITH GAS COLLECTION WELLS, GAS PIPING, BLOWER(S), AND KNOCKOUT VESSEL(S)

PERMIT UNIT REQUIREMENTS

1. NEO Tulare LLC/Tulare County (S-2996) and Minnesota Methane LLC (S-2890) are part of the same stationary source. [District Rule 2201]
2. Sampling ports shall be installed on each gas collection well head. [District Rule 4642]
3. Concentration of total organic compounds (as CH₄) shall not exceed 1000 ppmv at any point along the gas transfer path of the gas collection system. [District Rule 4642]
4. Gas collection system shall be operated in a manner which maximizes the amount of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. [District Rule 4642]
5. Excavated solid waste shall be covered using fresh soil, plastic sheeting, or vapor retarding foam as necessary to prevent odorous emissions and to minimize the release of landfill gas as described in Rule 4642 subsection 5.3. [District Rule 4642]
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
7. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
8. The permittee shall notify the APCO by telephone at least 24 hours before performing any maintenance work that requires the system to be shutdown. The notification shall include a description of work, the date work will be performed and the amount of time needed to complete the maintenance work. [District Rule 4642]
9. During maintenance of the gas collection system and/or incineration device(s), emissions of landfill gas shall be minimized during shutdown, and gas collection system and control device shall not be shutdown for more than 144 cumulative hours in any calendar year. [District Rule 4642]
10. All landfill gas collected by a gas collection system shall be controlled by a control device with a VOC destruction efficiency of at least 98% or reduce the VOC concentration to 20 ppmv or less (measured as methane) corrected to 3% oxygen. [District Rules 2201 and 4642]
11. The control device destruction efficiency shall be computed using the following equation: $[1 - \{(\text{exhaust flow} \times \text{VOC}_o) / (\text{inlet flow} \times \text{VOC}_i)\}] \times 100\%$, where VOC_o is the measured VOC concentration in the control device exhaust and VOC_i is the measured VOC concentration in the landfill gas entering the control device. [District Rule 4642]
12. Landfill gas sulfur content shall not exceed 75 ppmv (as H₂S). [District Rule 2201]
13. The permittee shall measure, in dry standard cubic feet, the volumetric flow rate of the collected landfill gas entering the control device and the volumetric flow rate of control device effluent gases. [District Rule 4642]
14. Permittee shall notify the District no later than 30 days prior to any surface testing. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: NEO TULARE LLC/TULARE COUNTY

Location: VISALIA LANDFILL, CA

S-2996-1-2, Aug 29 2012 7:55AM - SRANK

15. Surface emission testing per Rule 4642 subsection 6.1.1 shall be performed once every six month period per calendar year. Upon completion of two consecutive semi-annual tests without an exceedance of the 1000 ppmv standard, testing may be performed every calendar year per Rule 4642 subsection 6.3.1. [District Rule 4642]
16. Permittee shall submit compliance test results to the District within 60 days from the completion of any surface emissions testing. [District Rule 1070]
17. Permittee shall maintain records of surface emission tests including: date and time, weather conditions, including precipitation records, areas sampled, calibration records, and test results. [District Rule 1070]
18. Permittee shall maintain records of maintenance related or other collection system and control device downtime, including individual well shutdown. [District Rule 1070]
19. Permittee shall maintain such records for a period of five years from the date of each entry and shall make such records readily available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2996-4-0

EXPIRATION DATE: 03/31/2013

SECTION: SE05 **TOWNSHIP:** 18S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

54.0 MMBTU/HR LANDFILL GAS FIRED ENCLOSED GROUND FLARE WITH THREE 25 BHP CENTRIFUGAL GAS BLOWERS; AUTOMATIC DAMPERS, AUTOMATIC SHUTDOWN, FLAME ARRESTOR, CONDENSATE INJECTION/ATOMIZATION SYSTEM, AND CONTINUOUSLY RECORDING TEMPERATURE SENSORS

PERMIT UNIT REQUIREMENTS

1. NEO Tulare LLC/Tulare County (S-2996) and Minnesota Methane LLC (S-2890) are part of the same stationary source. [District Rule 2201]
2. The flare shall incinerate collected landfill gas and condensate from permit S-2996-1. [District Rule 2201]
3. The flare shall achieve a VOC destruction efficiency of at least 98% by weight, or reduce the VOC concentration (measured as methane) to less than or equal to 20 ppmv @ 3% O₂. [District Rule 2201]
4. The flare shall utilize air-assist, as required, to operate in a smokeless manner. [District Rules 2201, 4101, and 4201]
5. Emissions from the flare shall not exceed any of the following limits: 0.03 lb PM₁₀/MMBtu, 0.01 lb SO_x/MMBtu, 0.06 lb NO_x/MMBtu, 0.13 lb CO/MMBtu. [District Rule 2201]
6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. Permittee shall maintain records of maintenance related or other collection system and control device downtime, including individual well shutdown. [District Rule 1070]
8. Permittee shall maintain such records for a period of five years from the date of each entry and shall make such records readily available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.