



NOV - 7 2018

Mr. David Bryson  
Rainbow Farms  
PO Box 910  
Turlock, CA 95381

**Re: Notice of Preliminary Decision – Title V Permit Renewal**  
**Facility Number: N-5526**  
**Project Number: N-1172382**

Dear Mr. Bryson:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Rainbow Farms at 1220 Hall Road, Denair, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Nick Peirce, Permit Services Manager, at (209) 557-6400.

Sincerely,



Arraud Marjollet  
Director of Permit Services

Enclosures

cc: Tung Le, CARB (w/enclosure) via email  
cc: Gerardo C. Rios, EPA (w/enclosure) via email

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**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation  
Rainbow Farms  
N-5526**

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**TITLE V PERMIT RENEWAL EVALUATION**  
Confined Animal Feeding Operation – Poultry/Egg Production

**Engineer:** Jagmeet Kahlon  
**Date:** October 31, 2018

**Facility Number:** N-5526  
**Facility Name:** Rainbow Farms  
**Mailing Address:** PO Box 910  
Turlock, CA 95381

**Contact Name:** David Bryson  
**Title:** Production Manager  
**Phone:** (209) 669-5500

**Responsible Official:** David Bryson  
**Title:** Production Manager

**Project # :** N-1172382  
**Deemed Complete:** July 13, 2017

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**I. PROPOSAL**

Rainbow Farms submitted a permit application to renew their Title V permit. During this renewal process, the existing permits will be reviewed and revised to include up to date requirements of all applicable District, State and Federal rules that were adopted or amended since the issuance of the previous Title V permit on August 31, 2013.

The purpose of this document is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. This document also identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

**II. FACILITY LOCATION**

The facility is located at 1220 Hall Road, Denair, California.

**III. EQUIPMENT LISTING**

A detailed facility printout listing all permitted equipment at the facility is included as **Attachment C**.

#### **IV. GENERAL PERMIT TEMPLATE USAGE**

The applicant has requested to use the following model general permit templates:

##### **A. Template SJV-UM-03 Facility-wide Umbrella**

The applicant has requested to utilize template SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

#### **V. SCOPE OF EPA AND PUBLIC REVIEW**

Certain segments of the proposed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

Conditions 1 through 40 in facility-wide permit requirement permit N-5526-0-2 including their underlying applicable requirements originate from template SJV-UM-0-3 and are not subject to further EPA or public review.

#### **VI. FEDERALLY ENFORCEABLE REQUIREMENTS**

##### **A. Rules Updated**

The following rules are updated since the previous Title renewal on August 19, 2013.

- District Rule 2020, Exemptions  
(Amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule  
(Amended February 18, 2016)

- District Rule 4621, Gasoline Transfer into Stationary Storage Containers, Delivery vessels, and Bulk Plants  
(Amended December 19, 2013)
- District Rule 4622, Gasoline Transfer into Motor Vehicle Fuel Tanks  
(Amended December 19, 2013)
- District Rule 4702, Internal Combustion Engines  
(Amended November 14, 2013)
- 40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  
(Amended July 7, 2016)
- 40 CFR Part 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
(Amended February 27, 2014)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

**B. Rules Removed**

There are no applicable rules that were removed since the previous Title V renewal.

**C. Rules Added**

None

**D. Rules Not Updated**

- District Rule 1070, Inspections  
(Amended December 17, 1992)
- District Rule 2010, Permits Required  
(Amended December 17, 1992)
- District Rule 2031, Transfer of Permits  
(Amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications  
(Amended December 17, 1992)

- District Rule 2080, Conditional Approval  
(Amended December 17, 1992)
- District Rule 2410, Prevention of Significant Deterioration  
(Effective November 26, 2012)
- District Rule 2520, Federally Mandated Operating Permits  
(Amended June 21, 2001)
- District Rule 4101, Visible Emissions  
(Amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration  
(Amended December 16, 1993)
- District Rule 4302, Incinerator Burning  
(Adopted March 15, 2007)
- District Rule 4550, Conservation Management Practices  
(Re-adopted August 19, 2004)
- District Rule 4565, Biosolids, Animal Manure, and Poultry Litter Operations  
(Adopted March 15, 2007)
- District Rule 4570, Confined Animal Facilities  
(Amended October 21, 2010)
- District Rule 4601, Architectural Coatings  
(Amended December 17, 2009)
- District Rule 4701, Internal Combustion Engines – Phase 1  
(Amended August 21, 2003)
- District Rule 4801, Sulfur Compounds  
(Amended December 17, 1992)
- District Rule 8011, General Requirements  
(Amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction and Other Earthmoving Activities  
(Amended August 19, 2004)

- District Rule 8031, Bulk Materials  
(Amended August 19, 2004)
- District Rule 8041, Carryout and Trackout  
(Amended August 19, 2004)
- District Rule 8051, Open Areas  
(Amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads  
(Amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas  
(Amended August 19, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos  
(Amended July 20, 2004)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners  
(Amended June 25, 2013)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction  
(Amended June 25, 2013)

## **VII. 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 Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable through Title V Permit".

For this facility, the following are not federally enforceable and will not be discussed in further detail:

### **A. Rules Added**

None

### **B. Rules Not Updated**

- District Rule 1100, Equipment Breakdown  
(Amended December 17, 1992)

- District Rule 1160, Emission Statements  
(Adopted November 18, 1992)
- District Rule 2040, Applications  
(Amended December 17, 1992)
- District Rule 4102, Nuisance  
(Amended December 17, 1992)
- Title 17 California Code of Regulations (CCR) Section 93115, Airborne Toxic Control Measure for Stationary Compression Ignition Engines  
(Adopted February 26, 2004)

## VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements and to ensure the renewed operating permit contains conditions enforcing the requirements of all applicable federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the previous Title V permit.

### **District Rule 2020, Exemptions**

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions. The amendments to this rule do not have any effect on current permit requirements and will therefore not be addressed in this evaluation.

### **District Rule 2201, New and Modified Stationary Source Review Rule**

District Rule 2201 has been amended since this facility's previous Title V permit was issued. However, the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any NSR permit actions have already been incorporated into the current Title V permit.

### **District Rule 4621, Gasoline Transfer into Stationary Storage Containers, Delivery vessels, and Bulk Plants**

The amendments to this rule include revisions to:

- Exemptions (section 4.0)
- Bulk plants and loading racks at bulk plants (section 5.6),

- Delivery vessels (section 5.7)
- Administrative requirements” (section 6.0) with addition of a new test procedure to demonstrate the required control efficiency for bulk plant loading operations falling under section 5.6.1.2<sup>1</sup>.

This rule applies to the following permit unit:

- N-5526-14: AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1,000 GALLON ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-142-B), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

None of the rule amendments require any changes to the existing conditions in permit N-5526-14. Therefore, continued compliance is expected with this rule.

### **District Rule 4622, Gasoline Transfer into Motor Vehicle Fuel Tanks**

The amendments to this rule include:

- New “definitions” (E85 fuel, IOM Manual, In-Station Diagnostics (ISD) system, and Liquid Condensate Trap, Section 3.0),
- Addition of new “exemptions” for mobile fuelers and E85 fuel dispensing operations
- Revision to section 5.4.1 to eliminate redundant language included in the definition of Major Defect (section 3.22)
- Addition of ARB’s Executive Order and requirements for ISD systems and liquid condensate traps (section 5.12 and 5.13), amendments to section 6.3.3.3 to make rule language more inclusive of ARB certification procedures by including language “applicable ARB Certification Procedures”, this includes CP 201, CP 206 and any future Certification Procedures (Section 6.0),
- Reduce the frequency of the Dynamic Back-Pressure Test from once every twelve months to once every five years, unless the applicable ARB’s Executive Order requires more frequent testing (Section 6.4)
- Revision to section 7.1.2 to clarify the six month period to complete construction from the issuance date of ATC and 60 day testing requirements

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<sup>1</sup> More details on the amendments can be found at:  
[https://www.valleyair.org/Workshops/postings/2013/12-19-13-R4621/Rules-4621-and-4622-Final-Draft-Staff-Report\\_\(2013-11-19\).pdf](https://www.valleyair.org/Workshops/postings/2013/12-19-13-R4621/Rules-4621-and-4622-Final-Draft-Staff-Report_(2013-11-19).pdf)

- Added a new section 7.3 to allow time to comply, if necessary, for facilities becoming subject to the requirements of the installation and operation of an ISD system.

This rule applies to the following permit unit:

- N-5526-14: AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1,000 GALLON ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-142-B), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

Per section 4.1, the facility is exempt from phase II vapor recovery system. The following conditions enforce on-going compliance with this section:

- Total gasoline throughput for the facility shall not exceed either of the following: 10,000 gallons in any consecutive 30-day period or 24,000 gallons per calendar year. If throughput exceeds stated limits, the permittee shall submit a complete application for an Authority to Construct (ATC) to the District within 30 days of the loss of exemption and install and test a certified Phase II vapor recovery system within six (6) months from the date the ATC is issued. [District Rule 4622]
- The permittee shall maintain monthly and annual gasoline throughput records. The records should allow the gasoline throughput for any 30-day period to be continuously determined. These records shall be maintained on the premises as long as exempt status is claimed. [District Rules 4621 and 4622]

Further, none of the rule amendments require any changes to the existing conditions in permit N-5526-14. Therefore, continued compliance is expected with this rule.

### **District Rule 4702, Internal Combustion Engines**

#### *Section 2.0 - Applicability*

This rule applies to any internal combustion engine rated at 25 brake horsepower (bhp) or greater.

As shown table below, bhp of each engine is greater than 25 bhp; therefore, these engines are subject to the requirements of this rule.

Permit Number	Equipment Description
N-5526-4	234 BHP CATERPILLAR MODEL 3306D1 (S/N: 85Z11102) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (PEPPER)
N-5526-6	147 BHP DEUTZ MODEL 1013FC (S/N: 00410072) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (CORTEZ)
N-5526-7	314 BHP* CATERPILLAR MODEL 3306DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (HALL)
N-5526-9	450 BHP GENERAL MOTORS MODEL W-LS-TT (S/N: 500-600) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SHASTA)
N-5526-10	450 BHP DETROIT MODEL 12V71 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SIERRA)
N-5526-12	450 BHP DAEWOO MODEL P180LE(G) (S/N: 401438EASOC) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (VEGAS)
N-5526-13	300 BHP GENERAL MOTORS MODEL 500-600 (S/N: 514769) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (YOSEMITE)
N-5526-19	490 BHP DETROIT DIESEL MODEL 606MK35 SPECB34450 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-5526-22	871 BHP DAEWOO MODEL P222LE TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (FORMERLY N-5526-5-0)
N-5526-26	157 BHP PERKINS MODEL 1104D-E44TAG2 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR
N-5526-29	389 BHP (INTERMITTENT) IVECO/FPT INDUSTRIAL S.P.A. MODEL F2CE9685A-E TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

\*Horsepower rating is corrected under this project.

**Section 4.0 – Exemptions**

Pursuant to Section 4.2, except for the requirements of Sections 5.9 and 6.2.3, the requirements of this rule shall not apply to an “emergency standby engine” (section 3.15) or a “low-use engine” (section 3.26), provided that the engine is operated with an operating non-resettable elapsed time meter or other APCO approved alternative.

Section 5.9 requires complying with the following requirements:

- Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.
- Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.
- Install and operate a non-resettable elapsed time meter or other APCO approved alternative device.

The following table summarizes the conditions that enforces on-going compliance with the above requirements.

Permit Number	Condition Numbers
N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19	4,5,6, and 7
N-5526-22	5, 9, 10 and 14
N-5526-26	4, 8, 9 and 13
N-5526-29	4, 6, 9 and 10

*Section 6.2 – Recordkeeping*

Section 6.2.3 requires that an owner claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following:

- Total hours of operation,
- The type of fuel used,
- The purpose for operating the engine,
- For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and
- Other support documentation necessary to demonstrate claim to the exemption.

The following table summarizes the conditions that enforces on-going compliance with the above requirements.

Permit Number	Condition Numbers
N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19	8, 11
N-5526-22	13, 16
N-5526-26	12, 15
N-5526-29	13, 15

Compliance is expected with this Rule.

**40 CFR Part 60 Subpart III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

§ 60.4200 *Am I subject to this subpart?*

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

- (i) 2007 or later, for engines that are not fire pump engines;
- (ii) The model year listed in Table 3 to this subpart or later model year, for fire pump engines (i.e., starting 2009 year model for  $175 \leq \text{HP} \leq 750$ ).

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

- (i) Manufactured after April 1, 2006, and are not fire pump engines, or
- (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(3) Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.

(4) The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

N-5526-4, '-6, '-7, '-9, '-10, '-12, and '-13

Per application under project N-1041699, the engines under permit N-5526-4, '-6, '-7, '-9, '-10, '-12, and '-13 were in operation prior to earliest cutoff date of July 11, 2005 in the above section. Furthermore, these engines were not modified after July 11, 2005. Therefore, these units are not subject to the requirements of this subpart.

N-5526-19

Per application under project N-1072877, the engine under permit N-5526-19 was purchased in May 2001, and was put in operation prior to earliest cutoff date of July 11, 2005 in the above section. Furthermore, this engine was not modified after July 11, 2005. Therefore, this unit is not subject to the requirements of this subpart.

N-5526-22

Per applicant, the engine under this permit was installed in July, 2004. This engine has never been modified. Since the engine was put in operation prior to earliest cutoff date of July 11, 2005 and was never modified, this unit is not subject to the requirements of this subpart.

N-5526-26

Per application under project N-1103515, the engine under this permit was manufactured in 2010 and was installed in the same year. Since the engine was installed after the cutoff date of July 11, 2005 and was manufactured after April 1, 2006, this engine is subject to the requirements of this subpart.

N-5526-29

Per application under project N-1153402, the engine under this permit was manufactured in 2015 and was installed in March 2016. Since the engine was installed after the cutoff date of July 11, 2005 and was manufactured after April 1, 2006, this engine is subject to the requirements of this subpart.

*§60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?*

- (b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

Section 62.4202(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

- (1) For engines with a maximum engine power less than 37 KW (50 HP):

(i) The certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants for model year 2007 engines, and

(ii) The certification emission standards for new nonroad CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and table 2 to this subpart, for 2008 model year and later engines.

(2) For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007.

The applicable standards from 40 CFR 89.112(a), Table 1, and permitted emission rate of the engine under permit N-5526-26 is summarized in the following table:

Category	Rated Power	NMHC + NOx	CO	PM
Standard	75≤kW<130 (101≤bhp<174)	4.0 g/kW-hr (3.0 g/bhp-hr)	5.0 g/kw-hr (3.7 g/bhp-hr)	0.3 g/kW-hr (0.2 g/bhp-hr)
N-5526-26	157 bhp	2.76 g/bhp-hr	1.34 g/bhp-hr	0.15 g/bhp-hr

Conditions 6 and 7 in permit N-5526-26 enforce on-going compliance with this section.

Similarly, the applicable standards from 40 CFR 89.112(a), Table 1, and permitted emission rate of the engine under permit N-5526-29 are summarized in the following table:

Category	Rated Power	NMHC + NOx	CO	PM
Standard	225≤kW<450 (302≤bhp<603)	4.0 g/kW-hr (3.0 g/bhp-hr)	3.5 g/kw-hr (2.6 g/bhp-hr)	0.2 g/kW-hr (0.1 g/bhp-hr)
N-5526-29	389 bhp	2.6 g/bhp-hr	0.4 g/bhp-hr	0.1 g/bhp-hr

Conditions 7 and 8 in permit N-5526-29 enforce on-going compliance with this section.

40 CFR 89.113 has smoke emission standard and requires that the exhaust opacity from CI non-road engine must not exceed 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes. These standards are presumed to be checked during engine certification process; therefore, continued compliance is expected, and no additional conditions are necessary in these permits.

*§60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?*

- (b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

The engines under permit N-5526-26 and 29 are required to use CARB certified diesel fuel containing no more than 15 ppmv sulfur by weight. Further, the CARB diesel fuel specification requires no more than 10 v% of aromatic hydrocarbon content (<http://www.arb.ca.gov/enf/fuels/dieselspecs.pdf>).

Condition 5 in permits N-5526-26 and '-29 ensures on-going compliance with this section.

*§60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?*

- (a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:
- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
  - (2) Change only those emission-related settings that are permitted by the manufacturer; and
  - (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

Conditions 6,7 and 8 in the permits N-5526-26 and N-5526-29 ensure on-going compliance with this section.

- (c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in

§60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.

The engines under N-5526-26 and '-29 are Tier 3 certified engines. The equipment description and the emission limits in permit N-5526-26 and '-29 enforce on-going compliance with this section.

- (f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

(ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North

American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

The engines under permit N-5526-26 and '-29 (each) are limited to operate for 50 hours/year and 100 hours per year respectively during non-emergency scenarios including testing and maintenance of the engine or any other required regulatory purpose.

Condition 13 in the permit N-5526-26 and condition 10 in permit N-5526-29 enforces on-going compliance with this section.

*§60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?*

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

The engines under permit N-5526-26 and '-29 (each) are existing Tier-3 certified emergency stationary IC engines. Therefore, no additional notification, reporting or recordkeeping required under this section.

Compliance is expected with this section.

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

*§ 63.6585 Am I subject to this subpart?*

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

Section (b) states 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, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

Per worksheet in Attachment III (HAP calculations), this facility is a major source of HAP emissions.

§ 63.6590 *What parts of my plant does this subpart cover?*

This subpart applies to each affected source.

(a) An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) *Existing stationary RICE*

- (i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.
- (ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (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.
- (iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) *New stationary RICE*

- (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.
- (ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.
- (iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

Permit unit	Engine site rating	Installation date	Existing or new?
N-5526-4	234 bhp	Before July 11, 2005	Existing
N-5526-6	147 bhp		Existing
N-5526-7	314 bhp*		Existing
N-5526-9	450 bhp		Existing
N-5526-10	450 bhp		Existing
N-5526-12	450 bhp		Existing
N-5526-13	300 bhp		Existing
N-5526-19	490 bhp		Existing
N-5526-22	871 bhp	July 24, 2004	New
N-5526-26	157 bhp	After June 12, 2006	New
N-5526-29	389 bhp		New

\*Correct bhp per nameplate on the engine.

(b) Stationary RICE subject to limited requirements. (1) An affected source which meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).

(i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii).

(ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

The engine under permit N-5526-22 (871 bhp) is a new emergency stationary RICE which is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii). Therefore, this engine is not subject to the requirements of this subpart.

The following condition enforces on-going compliance with this section:

- This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction

program, or for an interruptible power contract. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ]

Section (c) stationary RICE subject to Regulations under 40 CFR Part 60: An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

- (1) A new or reconstructed stationary RICE located at an area source;
- (2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;
- (4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (5) A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

The engines under permits N-5526-26 (157 bhp) and '-29 (389 bhp) are new emergency engines, each with a site rating of less than 500 bhp. These engines are located at a major source of HAP emissions. The units are subject to the requirements in 40 CFR Part 60 Subpart IIII (discussed above). Therefore, no further requirements apply to these engines under this part.

*§63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?*

Section (c) states if you own or operate any of the following stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b

to this subpart: an existing 2SLB stationary RICE; an existing 4SLB stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; **an emergency stationary RICE**; or a limited use stationary RICE.

The engine under permit N-5526-22 (871 bhp) is rated at more than 500 bhp. This engine is an emergency engine located at a major source of HAP emissions. As discussed under § 63.6590(b) above, this engine is not subject to the requirements of this subpart.

*§63.6602 What emission limitations and other requirements must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?*

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

The engines under permits N-5526-4 (234 bhp), '-6 (147 bhp), '-7 (314 bhp), '-9 (450 bhp), '-10 (450 bhp), '-12 (450 bhp), '-13 (300 bhp), and '-19 (490 bhp), are all rated at less than 500 bhp. These engines are located at a major source of HAP emissions. Therefore, these units are subject to the emission limitations and other requirements of Table 2c to this subpart. The applicable requirements from Table 2c are summarized in the table below:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
Emergency stationary CI RICE and black start stationary CI RICE <sup>1</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first. <sup>2</sup> b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <sup>3</sup>	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. <sup>3</sup>

<sup>1</sup>If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

<sup>2</sup>Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of this subpart.

<sup>3</sup>Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

The following conditions in permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13 and '-19 ensures on-going compliance with this section:

- The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ]
- The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ]
- The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ]

- The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ]
- The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ]

*§63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?*

Section (b) states that beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

40 CFR 80.510(b) states that diesel fuel is subject to the following per-gallon standards:

(1) Sulfur content.

- (i) 15 ppm maximum for non-road diesel fuel.
- (ii) 500 ppm maximum for locomotive diesel fuel.

(2) Cetane index or aromatic content, as follows:

- (i) A minimum cetane index of 40; or
- (ii) A maximum aromatic content of 35 volume percent.

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22 are compression ignition engines, and are required to use CARB certified diesel containing no more than 15 ppmv sulfur by weight. Furthermore, the CARB diesel fuel specification requires no more than 10 v% of aromatic hydrocarbon content (<http://www.arb.ca.gov/enf/fuels/dieselspecs.pdf>). The following condition in permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, and '-19 ensure on-going compliance with this section:

- Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ]

*§63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?*

The engine under permit N-5526-22 (817 bhp) are not subject to any emissions limitations in this subpart. As such, no initial performance tests are required.

*§63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary 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 RICE located at an area source of HAP emissions?*

The engines under permits N-5526-4, '-6,'-7, '-9, '-10, '-12, '-13 and '-19 (each less than 500 bhp) are not subject to any emissions limitations in this subpart. As such, no initial performance tests are required.

*§63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?*

Per Section (e)(2) if you own or operate an existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

The following condition(s) in permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, and '-19 (each less than 500 bhp) ensure on-going compliance:

- The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ]

Section (f) states that if you own or operate an existing emergency stationary 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 emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, and '-19 are already equipped with a non-resettable hour meter or other District approved alternative. The following condition(s) in these permits ensure on-going compliance:

- This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ]

Section (h) states if you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

The following condition(s) in permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13 and '-19 ensure on-going compliance:

- The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ]

*§63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?*

Section (a) states that you must demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies to you according to Table 5 of this subpart.

Section (b) states during the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.

Section (c) states that you must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22 are not subject to the items in Tables 1b, 2b and 5 of this subpart. Therefore, no further discussion is required.

*§63.6640 How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?*

- (a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, and '-19 (each less than 500 bhp) are not subject to emission limitation or operating limitation. They are subject to work or management practices (item 9, Table 6). The following requirement in section 63.6625 (discussed above) will ensure on-going compliance with this section:

- The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ]

- (b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22 are not subject to emission limitation in Table 2d or operating limitation in Table 2b. Therefore, no further discussion is required.

- (c) The annual compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and

that are operated more than 24 hours per calendar year must be conducted according to requirements in (c)(1) through (c)(7).

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22 are emergency RICE. Therefore, this section does not apply.

- (d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22 are not subject to emission limitation in Table 2d or operating limitation in Table 2b. Therefore, no further discussion is required.

- (e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, **an existing emergency stationary RICE**, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

The engines under N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22 are emergency engines; therefore, the above section does not apply.

- (f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than

emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Operation of each engine (N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22) for maintenance, testing, and required regulatory purposes is limited to 100 hours per calendar year, or less. Therefore, compliance is expected with the above sections.

*§63.6645 What notifications must I submit and when?*

- (a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following:
- (1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.
  - (2) An existing stationary RICE located at an area source of HAP emissions.
  - (3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
  - (4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.
  - (5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

§§63.7(b) and (c) covers notification of performance test and quality assurance program, 63.8(e) covers performance evaluation of continuous monitoring systems, (f)(4) covers the use of alternative monitoring procedures and (f)(6) covers alternative to the relative accuracy test, 63.9(b) through (e) covers initial notifications when a source becomes subject to a relevant standard (i.e., The notification, which shall be submitted not later than 120 calendar days after the effective date of the relevant standard or within 120 calendar days after the source becomes subject to the relevant standard), 63.9 (g) covers additional notification requirements for sources with continuous monitoring systems, and 63.9(h) covers notification of compliance status.

The engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22 are not subject to emissions or operating limitations in this subpart. However, they are subject to the other management practices in this subpart, and are expected to comply with the requirements of this subpart.

*§63.6650 What reports must I submit and when?*

- (a) You must submit each report in Table 7 of this subpart that applies to you.
- (b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

- (c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.
- (d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.
- (e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.
- (f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.
- (g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.
- (h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.

Table 7 of this subpart does not have a category for the engines under permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, '-19 and '-22. Additionally, the units are not subject to emissions or operating limitations in this subpart.

*§63.6655 What records must I keep?*

Section (e) states that you must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE:

- (1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.
- (2) An existing stationary emergency RICE.
- (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

The following condition will be included in permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, and '-19:

- The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ]

Section (f) states If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

- (1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

The following condition in permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, and '-19 (each less than 500 bhp engine located at a major source of HAP emissions) ensures compliance with this section:

- The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ]

*§63.6660 In what form and how long must I keep my records?*

- (a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
- (b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

The following condition(s) in permits N-5526-4, '-6, '-7, '-9, '-10, '-12, '-13, and '-19 ensure on-going compliance.

- 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 Rules 4702, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ]

Compliance is expected with this subpart.

**40 CFR Part 64, Compliance Assurance Monitoring (CAM)**

40 CFR Part 64 requires CAM for units that meet the following three criteria:

1. Unit must have an emission limit for the pollutant;
2. Unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), SCR system, baghouses, and thermal/catalytic oxidizers; and
3. Unit must have a pre-control potential to emit of greater than the major source thresholds given below:

NO <sub>x</sub> :	20,000 lb/yr
SO <sub>x</sub> :	140,000 lb/yr
PM <sub>10</sub> :	140,000 lb/yr
CO:	200,000 lb/yr
VOC:	20,000 lb/yr

**N-5526-1: LAYING HEN RANCH INCLUDING 1,786,000 LAYERS CONSISTING OF 23 MECHANICALLY VENTILATED LAYER HOUSES INCLUDING ELECTRIC FANS TOTALING 624 HP**

This operation is not subject to CAM since the permit does not include any emission limit for VOC or PM<sub>10</sub> that are expected from this operation.

**N-5526-2: SOLID MANURE HANDLING SYSTEM CONSISTING OF OPEN MANURE STOCK PILES WITH SOLID MANURE APPLICATION TO LAND, OFFSITE HAULING, AND ON-SITE COMPOSTING**

This operation is not subject to CAM since the permit does not include any emission limit for VOC or PM<sub>10</sub> that are expected from this operation.

**N-5526-4: 234 BHP CATERPILLAR MODEL 3306D1 (S/N: 85Z11102) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (PEPPER)**

Except for SO<sub>x</sub>, the permit does not include emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SO<sub>x</sub> emissions; however, the unit is not equipped with any add-on emissions control device to reduce SO<sub>x</sub> emissions. Therefore, CAM is not required.

**N-5526-6: 147 BHP DEUTZ MODEL 1013FC (S/N: 00410072) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (CORTEZ)**

Except for SO<sub>x</sub>, the permit does not include emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SOx emissions; however, the unit is not equipped with any add-on emissions control device to reduce SOx emissions. Therefore, CAM is not required.

N-5526-7: 314 BHP CATERPILLAR MODEL 3306DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (HALL)

Except for SOx, the permit does not include emissions limits for NOx, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SOx emissions; however, the unit is not equipped with any add-on emissions control device to reduce SOx emissions. Therefore, CAM is not required.

N-5526-9: 450 BHP GENERAL MOTORS MODEL W-LS-TT (S/N: 500-600) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SHASTA)

Except for SOx, the permit does not include emissions limits for NOx, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SOx emissions; however, the unit is not equipped with any add-on emissions control device to reduce SOx emissions. Therefore, CAM is not required.

N-5526-10: 450 BHP DETROIT MODEL 12V71 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SIERRA)

Except for SOx, the permit does not include emissions limits for NOx, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SOx emissions; however, the unit is not equipped with any add-on emissions control device to reduce SOx emissions. Therefore, CAM is not required.

N-5526-12: 450 BHP DAEWOO MODEL P180LE(G) (S/N: 401438EASOC) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (VEGAS)

Except for SOx, the permit does not include emissions limits for NOx, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SOx emissions; however, the unit is not equipped with any add-on emissions control device to reduce SOx emissions. Therefore, CAM is not required.

N-5526-13: 300 BHP GENERAL MOTORS MODEL 500-600 (S/N: 514769) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (YOSEMITE)

Except for SO<sub>x</sub>, the permit does not include emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SO<sub>x</sub> emissions; however, the unit is not equipped with any add-on emissions control device to reduce SO<sub>x</sub> emissions. Therefore, CAM is not required.

N-5526-14: AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1,000 GALLON ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-142-B), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

This operation is a source of VOC emissions. The operation is limited to dispense 24,000 gal/yr. The uncontrolled emissions are estimated as follows:

$$\begin{aligned} &= (17.3 \text{ lb-VOC}/1,000 \text{ gal}^2)(24,000 \text{ gal/yr}) \\ &= 415 \text{ lb-VOC/yr} \end{aligned}$$

Since the pre-control VOC emissions are less than the major source threshold for VOC emissions, this operation is not subject to CAM requirements.

N-5526-19: 490 BHP DETROIT DIESEL MODEL 606MK35 SPECB34450 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Except for SO<sub>x</sub>, the permit does not include emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO or VOC emissions. Therefore, unit is not subject to CAM for these pollutant.

The permit contain emission limit for SO<sub>x</sub> emissions; however, the unit is not equipped with any add-on emissions control device to reduce SO<sub>x</sub> emissions. Therefore, CAM is not required.

N-5526-20: 0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

NO<sub>x</sub>, SO<sub>x</sub>, CO and PM<sub>10</sub>

This unit is not equipped with add-on emission control device that would reduce NO<sub>x</sub>, SO<sub>x</sub> or CO emissions. Therefore, CAM is not required.

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<sup>2</sup>Tank filling loss + breathing loss + vehicle fueling loss + spillage loss =  $(0.42/(1-0.95) + 0.053 + 0.42/(1-0.95) + 0.42)$  lb-VOC/1,000 gal = 17.3 lb-VOC/1,000 gal; Tank filling loss, breathing loss, vehicle fueling loss and spillage loss emission factors as well as the phase I and phase II control efficiencies (95%) are taken from the Appendix A of the CAPCOA Air Toxics "Hot Spots" Program - Gasoline Service Station Industry wide Risk Assessment Guidelines (November 1997) available at: <http://www.arb.ca.gov/ab2588/trap-iwra/GasIWRA.pdf>.

VOC

The unit is equipped with an afterburner to reduce VOC emissions. Presuming the afterburner reduces 99% of the VOCs, the uncontrolled emissions would be:

$$\begin{aligned} \text{PE (pre-control)} &= 0.0002 \text{ lb-VOC/lb-poultry carcasses} \times 600 \text{ lb-poultry} \\ &\quad \text{carcasses/day} \times 365 \text{ days/yr} \div (1-0.99) \\ &= 4,380 \text{ lb-VOC/year} \end{aligned}$$

Since the pre-control VOC emissions are less than the major source threshold, this operation is not subject to CAM requirements.

N-5526-21: 0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

NO<sub>x</sub>, SO<sub>x</sub>, CO and PM<sub>10</sub>

This unit is not equipped with add-on emission control device that would reduce NO<sub>x</sub>, SO<sub>x</sub>, CO or PM<sub>10</sub> emissions. Therefore, CAM is not required.

VOC

The unit is equipped with an afterburner to reduce VOC emissions. Presuming the afterburner reduces 99% of the VOCs, the uncontrolled emissions would be:

$$\begin{aligned} \text{PE (pre-control)} &= 0.0002 \text{ lb-VOC/lb-poultry carcasses} \times 600 \text{ lb-poultry} \\ &\quad \text{carcasses/day} \times 365 \text{ days/yr} \div (1-0.99) \\ &= 4,380 \text{ lb-VOC/year} \end{aligned}$$

Since the pre-control VOC emissions are less than the major source threshold, this operation is not subject to CAM requirements.

N-5526-22: 871 BHP DAEWOO MODEL P222LE TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (FORMERLY N-5526-5-0)

This unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC; however, this unit is not equipped with any add-on emission control equipment that would reduce these criteria pollutants. Therefore, CAM is not required.

N-5526-23: ORGANIC WASTE MATERIAL RECEIVING, STORAGE, AND MIXING OPERATION

This permit does not contain emission limit on PM<sub>10</sub> or VOC emissions that are expected from this operation. Therefore, this operation is not subject to CAM requirements.

N-5526-24: OPEN WINDROW ACTIVE AND CURING PHASE CO-COMPOSTING OPERATION

This permit does not contain emission limit on PM<sub>10</sub> or VOC emissions that are expected from this operation. Therefore, this operation is not subject to CAM requirements.

N-5526-25: FINISHED COMPOST STORAGE AND LOADOUT OPERATION

This permit does not contain emission limit on PM<sub>10</sub> or VOC emissions that are expected from this operation. Therefore, this operation is not subject to CAM requirements.

N-5526-26: 157 BHP PERKINS MODEL 1104D-E44TAG2 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

This unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC; however, this unit is not equipped with any add-on emission control equipment that would reduce these criteria pollutants. Therefore, CAM is not required.

N-5526-27-0: SHENANDOAH A-850 POULTRY INCINERATOR #1 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER

NO<sub>x</sub>, SO<sub>x</sub>, CO and PM<sub>10</sub>

This unit is not equipped with add-on emission control device that would reduce NO<sub>x</sub>, SO<sub>x</sub>, CO or PM<sub>10</sub> emissions. Therefore, CAM is not required.

VOC

The unit is equipped with an afterburner to reduce VOC emissions. Presuming the afterburner reduces 99% of the VOCs, the uncontrolled emissions would be:

$$\begin{aligned} \text{PE (pre-control)} &= 0.0002 \text{ lb-VOC/lb-poultry incinerated} \times 850 \text{ lb-poultry} \\ &\quad \text{incinerated/day} \times 365 \text{ days/yr} \div (1-0.99) \\ &= 6,205 \text{ lb-VOC/year} \end{aligned}$$

Since the pre-control VOC emissions are less than the major source threshold, this operation is not subject to CAM requirements.

N-5526-28-0: SHENANDOAH A-850 POULTRY INCINERATOR #2 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER

NO<sub>x</sub>, SO<sub>x</sub>, CO and PM<sub>10</sub>

This unit is not equipped with add-on emission control device that would reduce NO<sub>x</sub>, SO<sub>x</sub>, CO or PM<sub>10</sub> emissions. Therefore, CAM is not required.

## VOC

The unit is equipped with an afterburner to reduce VOC emissions. Presuming the afterburner reduces 99% of the VOCs, the uncontrolled emissions would be:

$$\begin{aligned}\text{PE (pre-control)} &= 0.0002 \text{ lb-VOC/lb-poultry incinerated} \times 850 \text{ lb-poultry} \\ &\quad \text{incinerated/day} \times 365 \text{ days/yr} \div (1-0.99) \\ &= 6,205 \text{ lb-VOC/year}\end{aligned}$$

Since the pre-control VOC emissions are less than the major source threshold, this operation is not subject to CAM requirements.

N-5526-29-1: 389 BHP (INTERMITTENT) IVECO/FPT INDUSTRIAL S.P.A. MODEL F2CE9685A-E TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

This unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC; however, this unit is not equipped with any add-on emission control equipment that would reduce these criteria pollutants. Therefore, CAM is not required.

## IX. 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 Title V 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

By using the model general permit template(s) listed in Section IV of this evaluation, the applicant has requested that a permit shield be issued for requirements addressed in the template(s). The basis for each permit shield is discussed in the Permit Shield section of each template.

### B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested any new permit shields. Therefore, no further discussion is necessary.

## X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements.

Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, a Title V permit renewal, is subject to a ministerial action that is exempt from CEQA.

## **XI. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

## **XII. ATTACHMENTS**

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. HAP Calculations
- D. Detailed Facility List

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: N-5526-0-2

EXPIRATION DATE: 12/31/2017

## FACILITY-WIDE REQUIREMENTS

1. {4362} 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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} 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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] 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, 9.8.1 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

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: RAINBOW FARMS  
Location: 1220 HALL RD, DENAIR, CA 95316  
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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
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 Rules 8011 and 8021] 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 Rules 8011 and 8031] 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 Rules 8011 and 8041] 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 Rules 8011 and 8051] 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 Rules 8011 and 8061] Federally Enforceable Through Title V Permit

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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 Rules 8011 and 8071] 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. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. The owner or operator shall implement the applicable conservation management practices (CMP) selected in the approved CMP plan pursuant to Section 6.2 of District Rule 4550 (8/19/04). The owner or operator shall submit a CMP application to the APCO prepared pursuant to Section 6.1 of District Rule 4550 (8/19/04) within 90 days for an agricultural operation site or an agricultural parcel that is acquired or becomes subject to District Rule 4550 and within 60 days of any operational, administrative, or other modification that necessitates revision of the CMP Plan. The owner or operator shall maintain a copy of each CMP application, CMP plan, and any supporting information necessary to confirm the implementation of the CMPs for a minimum of five (5) years. [District Rule 4550] Federally Enforceable Through Title V Permit
43. This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE  
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44. On August 31, 2013, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin September 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-1-5

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

LAYING HEN RANCH INCLUDING 1,786,000 LAYERS CONSISTING OF 23 MECHANICALLY VENTILATED LAYER HOUSES INCLUDING ELECTRIC FANS TOTALING 624 HP

## PERMIT UNIT REQUIREMENTS

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1. Permittee shall implement and maintain all the mitigation measures contained in this permit no later than December 25, 2013 [District Rule 4570] Federally Enforceable Through Title V Permit
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570] Federally Enforceable Through Title V Permit
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Permittee shall feed animals additives such as amylase, xylanase, and protease, designed to maximize digestive efficiency. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall maintain records that demonstrate animals are fed feed additives such as amylase, xylanase, and protease. Records such as feed company guaranteed analyses (feed tags), ration sheets, or feed purchase records may be used to meet this. [District Rule 4570] Federally Enforceable Through Title V Permit
6. Permittee shall use drinkers that do not drip continuously. [District Rule 4570] Federally Enforceable Through Title V Permit
7. Permittee shall inspect water pipes and drinkers and repair leaks daily. [District Rule 4570] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records indicating that water pipes and drinkers are inspected daily and that any leaks are repaired. [District Rule 4570] Federally Enforceable Through Title V Permit
9. Permittee shall maintain a record of the number of animals of each species and production group at the facility and shall maintain quarterly records of any changes to this information. [District Rule 4570] Federally Enforceable Through Title V Permit
10. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-2-4

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

SOLID MANURE HANDLING SYSTEM CONSISTING OF OPEN MANURE STOCK PILES WITH SOLID MANURE APPLICATION TO LAND, OFFSITE HAULING, AND ON-SITE COMPOSTING

## PERMIT UNIT REQUIREMENTS

1. Permittee shall implement and maintain all the mitigation measures contained in this permit no later than December 25, 2013. [District Rule 4570] Federally Enforceable Through Title V Permit
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570] Federally Enforceable Through Title V Permit
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Within seventy two (72) hours of removal of solid manure from housing, permittee shall either 1) remove all litter/manure from the facility, or 2) cover litter/manure outside the housing with a weatherproof covering from October through May, except for times when wind events remove the covering, not to exceed twenty-four (24) hours per event. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall keep records of dates when litter/manure is removed from the facility; manure hauling invoices may be used to meet this requirement, or permittee shall maintain records to demonstrate that litter/manure piles outside the pens are covered with a weatherproof covering from October through May. [District Rule 4570] Federally Enforceable Through Title V Permit
6. If weatherproof coverings are used, permittee shall maintain records, such as manufacturer warranties or other documentation, demonstrating that the weatherproof covering over dry manure are installed, used, and maintained in accordance with manufacturer recommendations and applicable standards listed in NRCS Field Office Technical Guide Code 313 or 367, or any other applicable standard approved by the APCO, ARB, and EPA. [District Rule 4570] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-4-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

234 BHP CATERPILLAR MODEL 3306D1 (S/N: 85Z11102) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR (PEPPER)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-6-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

147 BHP DEUTZ MODEL 1013FC (S/N: 00410072) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (CORTEZ)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-7-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

314 BHP CATERPILLAR MODEL 3306DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (HALL)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] 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:** N-5526-9-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

450 BHP GENERAL MOTORS MODEL W-LS-TT (S/N: 500-600) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SHASTA)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-10-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

450 BHP DETROIT MODEL 12V71 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SIERRA)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-12-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

450 BHP DAEWOO MODEL P180LE(G) (S/N: 401438EASOC) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (VEGAS)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-13-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

300 BHP GENERAL MOTORS MODEL 500-600 (S/N: 514769) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (YOSEMITE)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-14-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1,000 GALLON ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-142-B), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

## PERMIT UNIT REQUIREMENTS

1. The Phase I vapor recovery system shall be installed and maintained in accordance with the manufacturer specifications and the ARB Executive Order specified in this permit, including applicable rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, the Division of Occupational Safety and Health of the Department of Industrial Relations, and the Division of Water Quality of the State Water Resources Control Board that have been made conditions of the certification. [District Rule 4621] Federally Enforceable Through Title V Permit
2. The storage container(s) shall be installed, maintained, and operated such that they are leak-free. [District Rule 4621] Federally Enforceable Through Title V Permit
3. The Phase I vapor recovery systems and gasoline dispensing equipment shall be maintained without leaks as determined in accordance with the test method specified in this permit. [District Rule 4621] Federally Enforceable Through Title V Permit
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute, or the detection of any gaseous or vapor emissions with a concentration of total organic compound greater than 10,000 ppmv, as methane, above background when measured in accordance with EPA Test Method 21. [District Rule 4621] Federally Enforceable Through Title V Permit
5. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo container, which attest to the vapor integrity of the container. [District Rule 4621] Federally Enforceable Through Title V Permit
6. The permittee shall conduct periodic maintenance inspections based on the greatest monthly throughput of gasoline dispensed by the facility in the previous year as follows: A) less than 2,500 gallons - one day per month; B) 2,500 to less than 25,000 gallons - one day per week; or C) 25,000 gallons or greater - five days per week. All inspections shall be documented within the O & M Manual. [District Rule 4621] Federally Enforceable Through Title V Permit
7. Periodic maintenance inspections of the Phase I vapor recovery system shall include, at a minimum, verification that 1) the fill caps and vapor caps are not missing, damaged, or loose; 2) the fill cap gasket and vapor cap gaskets are not missing or damaged; 3) the fill adapter and vapor adapter are securely attached to the risers; 4) where applicable, the spring-loaded submerged fill tube seals properly against the coaxial tubing; 5) the dry break (poppet-valve) is not missing or damaged; and 6) the submerged fill tube is not missing or damaged. [District Rule 4621] Federally Enforceable Through Title V Permit
8. The permittee shall conduct all periodic vapor recovery system performance tests specified in this permit, no more than 30 days before or after the required compliance testing date, unless otherwise required under the applicable ARB Executive Order. [District Rule 4621] 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.

9. The permittee shall perform and pass a Static Leak Test for Aboveground Tanks using ARB TP-201.3B or TP-206.3 at least once every 36 months. [District Rule 4621] Federally Enforceable Through Title V Permit
10. The permittee shall notify the District at least 7 days prior to each performance test. The test results shall be submitted to the District no later than 30 days after the completion of each test. [District Rule 4621] Federally Enforceable Through Title V Permit
11. A person performing installation of, or maintenance on, a certified Phase I vapor recovery system shall be certified by the ICC for Vapor Recovery System Installation and Repair, or work under the direct and personal supervision of an individual physically present at the work site who is certified. The ICC certification shall be renewed every 24 months. [District Rule 4621] Federally Enforceable Through Title V Permit
12. Proof of the ICC certification and all other certifications required by the Executive Order and installation and operation manual shall be made available onsite. [District Rule 4621] Federally Enforceable Through Title V Permit
13. A person conducting testing of, or repairs to, a certified vapor recovery system shall be in compliance with District Rule 1177 (Gasoline Dispensing Facility Tester Certification). [District Rule 4621]
14. Total gasoline throughput for the facility shall not exceed either of the following: 10,000 gallons in any consecutive 30-day period or 24,000 gallons per calendar year. If throughput exceeds stated limits, the permittee shall submit a complete application for an Authority to Construct (ATC) to the District within 30 days of the loss of exemption and install and test a certified Phase II vapor recovery system within six (6) months from the date the ATC is issued. [District Rule 4622] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly and annual gasoline throughput records. The records should allow the gasoline throughput for any 30-day period to be continuously determined. These records shall be maintained on the premises as long as exempt status is claimed. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
16. All records required by this permit shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rule 4621] 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:** N-5526-19-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

490 BHP DETROIT DIESEL MODEL 606MK35 SPECB34450 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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, 17 CCR 93115, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The owner or operator shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The owner or operator shall keep records of the maintenance conducted on the engine to demonstrate that the engine and the associated emissions control equipment (if any) is being operated and maintained according to the manufacturer's maintenance plan. These records shall include, but are not limited to the date, hour meter reading, action performed (e.g., engine oil and filter change/analysis, air filter inspection, hoses and belt inspection, etc.), name of the individual conducting maintenance and company affiliation. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] 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:** N-5526-20-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801] Federally Enforceable Through Title V Permit
3. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302] Federally Enforceable Through Title V Permit
4. Emission rates from this unit shall not exceed any of the following limits: 0.000883 lb-NO<sub>x</sub>/lb-poultry carcasses; 0.0016 lb-SO<sub>x</sub>/lb-poultry carcasses; 0.0062 lb-CO/lb-poultry carcasses; 0.0013 lb-PM<sub>10</sub>/lb-poultry carcasses; and 0.0002 lb-VOC/lb-poultry carcasses. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum poultry incinerator charging rate shall not exceed 600 lb-poultry carcasses per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily records of weight of poultry carcasses incinerated in each incinerator shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-21-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801] Federally Enforceable Through Title V Permit
3. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302] Federally Enforceable Through Title V Permit
4. Emission rates from this unit shall not exceed any of the following limits: 0.000883 lb-NO<sub>x</sub>/lb-poultry carcasses; 0.0016 lb-SO<sub>x</sub>/lb-poultry carcasses; 0.0062 lb-CO/lb-poultry carcasses; 0.0013 lb-PM<sub>10</sub>/lb-poultry carcasses; and 0.0002 lb-VOC/lb-poultry carcasses. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum poultry incinerator charging rate shall not exceed 600 lb-poultry carcasses per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily records of weight of poultry carcasses incinerated in each incinerator shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-22-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

871 BHP DAEWOO MODEL P222LE TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR (FORMERLY N-5526-5-0)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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] Federally Enforceable Through Title V Permit
3. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. {1898} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 6.12 g-NOx/bhp-hr, 0.70 g-CO/bhp-hr, or 0.03 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.07 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ] 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. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. 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 and 17 CCR 93115] 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:** N-5526-23-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

ORGANIC WASTE MATERIAL RECEIVING, STORAGE, AND MIXING OPERATION

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## PERMIT UNIT REQUIREMENTS

1. All material for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. The combined quantity of animal manure, poultry litter and agricultural waste received and/or generated shall not exceed 19,062 wet tons (28,600 cubic yards) in any 12-month rolling period. [District Rule 2010] Federally Enforceable Through Title V Permit
3. The permittee shall test the carbon to nitrogen ratio of the composting material when it is prepared for active composting using TMECC Method 05.02A (Carbon to Nitrogen Ratio). Testing shall be done each day that materials are mixed and test samples shall be representative of the initial composition of the active compost pile. [District Rule 4565] Federally Enforceable Through Title V Permit
4. If the tested parameters of the mitigation measure are found to be outside the applicable limits the permittee shall take corrective action, within 24 hours of discovery, to bring the pile characteristics to within the specified limits. [District Rule 4565] Federally Enforceable Through Title V Permit
5. The permittee shall maintain a record indicating a record indicating the date and the tested carbon to nitrogen ratio of the composting material prepared and mixed for active composting use. [District Rule 4565] Federally Enforceable Through Title V Permit
6. The permittee shall record on a daily basis the quantity of organic waste material received that would be used in the compost/co-compost operation. [District Rule 4565] Federally Enforceable Through Title V Permit
7. The permittee shall maintain a cumulative annual log and the log shall include the following: (a) Total quantity and type of each organic waste material received and/or generated onsite (in wet tons); (b) Total quantity and type of each organic waste material mixed for composting (in wet tons). The records shall be updated at least monthly. [District Rule 1070] Federally Enforceable Through Title V Permit
8. All bulk material transport vehicles shall limit the Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
9. 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 or Rule 8011. [District Rule 8041] Federally Enforceable Through Title V Permit
10. Any open area having 3.0 acres, or more, of disturbed surface area that has remained undeveloped, unoccupied, unused or vacant for more than seven days shall comply with the requirements of District Rule 8051 (Open Areas), unless specifically exempted under Section 4.0 [District Rule 8051] 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.

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11. Any new or existing public or private paved or unpaved road, road construction project, or road modification project shall be implement the control measures and design criteria of, and comply with the requirements of District Rule 8061 (Paved and Unpaved Roads), unless specifically exempted under Section 4.0 of Rule 8061. [District Rule 8061] Federally Enforceable Through Title V Permit
12. Water, gravel, roadmix or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
13. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, the permittee shall apply water, gravel, road mix or chemical/organic dust stabilizers/suppressants, vegetative materials or other District approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
14. Whenever any portion of the site becomes inactive, the permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
15. All records shall be maintained and retained on-site for a minimum of five years and shall be made available for District, ARB or EPA inspection upon request. [District Rules 1070 and 4565] 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:** N-5526-24-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

OPEN WINDROW ACTIVE AND CURING PHASE CO-COMPOSTING OPERATION

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## PERMIT UNIT REQUIREMENTS

1. All material for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. The permittee shall test the oxygen concentration of each active compost pile and each curing compost pile at least once per week using TMECC Method 05.08-C (In-Situ Oxygen Refresh Rate). [District Rule 4565] Federally Enforceable Through Title V Permit
3. The permittee shall test the moisture content of each active compost pile and each curing compost pile at least once per week using TMECC Method 03.09-C (Total Solids and Moisture at 70 +/- 5 degrees Centigrade). [District Rule 4565] Federally Enforceable Through Title V Permit
4. If the tested oxygen concentration and moisture content are found to be outside the applicable limits the permittee shall take corrective action, within 24 hours of discovery, to bring the pile characteristics to within the specified limits. [District Rule 4565] Federally Enforceable Through Title V Permit
5. The permittee shall maintain a record indicating the date and the tested oxygen concentration of each active compost pile and each curing compost pile. [District Rule 4565] Federally Enforceable Through Title V Permit
6. The permittee shall maintain a record indicating the date and the tested moisture content of each active compost pile and each curing compost pile. [District Rule 4565] Federally Enforceable Through Title V Permit
7. A daily record shall be maintained and shall include the following: (a) Total quantity of active phase composting piles utilized onsite (in wet tons); (b) Total quantity of curing phase composting piles utilized onsite (in wet tons). [District Rules 1070 and 4565] Federally Enforceable Through Title V Permit
8. A cumulative 12-month rolling period record log shall be maintained and shall include the following: (a) Total quantity and type of each organic waste material received and/or generated onsite (in wet tons); (b) Total quantity and type of each organic waste material mixed for composting (in wet tons). The records shall be updated at least monthly. [District Rule 1070] Federally Enforceable Through Title V Permit
9. The permittee shall maintain annual records indicating the quantity of biosolids, animal manure and poultry litter received, generated and composted on site, in tons per year. [District Rule 4565] Federally Enforceable Through Title V Permit
10. All bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
11. 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 or Rule 8011. [District Rule 8041] 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.

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12. Any open area having 3.0 acres, or more, of disturbed surface area that has remained undeveloped, unoccupied, unused or vacant for more than seven days shall comply with the requirements of District Rule 8051 (Open Areas), unless specifically exempted under Section 4.0 [District Rule 8051] Federally Enforceable Through Title V Permit
13. Any new or existing public or private paved or unpaved road, road construction project, or road modification project shall be implement the control measures and design criteria of, and comply with the requirements of District Rule 8061 (Paved and Unpaved Roads), unless specifically exempted under Section 4.0 of Rule 8061. [District Rule 8061] Federally Enforceable Through Title V Permit
14. Water, gravel, roadmix or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
15. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, the permittee shall apply water, gravel, road mix or chemical/organic dust stabilizers/suppressants, vegetative materials or other District approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
16. Whenever any portion of the site becomes inactive, the permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
17. All records shall be maintained and retained on-site for a minimum of five years and shall be made available for District, ARB or EPA inspection upon request. [District Rules 1070 and 4565] 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:** N-5526-25-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

FINISHED COMPOST STORAGE AND LOADOUT OPERATION

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## PERMIT UNIT REQUIREMENTS

1. All material for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. All bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
3. 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 or Rule 8011. [District Rule 8041] Federally Enforceable Through Title V Permit
4. Any open area having 3.0 acres, or more, of disturbed surface area that has remained undeveloped, unoccupied, unused or vacant for more than seven days shall comply with the requirements of District Rule 8051 (Open Areas), unless specifically exempted under Section 4.0 [District Rule 8051] Federally Enforceable Through Title V Permit
5. Any new or existing public or private paved or unpaved road, road construction project, or road modification project shall be implement the control measures and design criteria of, and comply with the requirements of District Rule 8061 (Paved and Unpaved Roads), unless specifically exempted under Section 4.0 of Rule 8061. [District Rule 8061] Federally Enforceable Through Title V Permit
6. Water, gravel, roadmix or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
7. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, the permittee shall apply water, gravel, road mix or chemical/organic dust stabilizers/suppressants, vegetative materials or other District approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
8. Whenever any portion of the site becomes inactive, the permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
9. All records shall be maintained and retained on-site for a minimum of five years and shall be made available for District, ARB or EPA inspection upon request. [District Rule 1070] 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:** N-5526-26-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

157 BHP PERKINS MODEL 1104D-E44TAG2 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 2.39 g-NOx/bhp-hr, 1.34 g-CO/bhp-hr, or 0.37 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. 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 and 17 CCR 93115] 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:** N-5526-27-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

SHENANDOAH A-850 POULTRY INCINERATOR #1 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801] Federally Enforceable Through Title V Permit
3. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing no more than 0.0015% sulfur by weight is to be used. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Operation of the incinerator shall not exceed 9 hours in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The quantity of poultry incinerated shall not exceed 850 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. NO<sub>x</sub> emissions shall not exceed 0.217 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
8. SO<sub>x</sub> emissions shall not exceed 0.184 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. CO emissions shall not exceed 1.53 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. PM<sub>10</sub> emissions shall not exceed 0.0019 pounds per pound of poultry incinerated. [District Rule 2201] Federally Enforceable Through Title V Permit
11. VOC emissions shall not exceed 0.0002 pounds per pound of poultry incinerated. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The permittee shall keep a daily record of the number of hours operated. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The permittee shall keep a daily record of the quantity of poultry incinerated, in pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4302] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-28-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

SHENANDOAH A-850 POULTRY INCINERATOR #2 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801] Federally Enforceable Through Title V Permit
3. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing no more than 0.0015% sulfur by weight is to be used. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Operation of the incinerator shall not exceed 9 hours in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The quantity of poultry incinerated shall not exceed 850 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. NO<sub>x</sub> emissions shall not exceed 0.217 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
8. SO<sub>x</sub> emissions shall not exceed 0.184 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. CO emissions shall not exceed 1.53 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. PM<sub>10</sub> emissions shall not exceed 0.0019 pounds per pound of poultry incinerated. [District Rule 2201] Federally Enforceable Through Title V Permit
11. VOC emissions shall not exceed 0.0002 pounds per pound of poultry incinerated. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The permittee shall keep a daily record of the number of hours operated. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The permittee shall keep a daily record of the quantity of poultry incinerated, in pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4302] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-29-2

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

389 BHP (INTERMITTENT) IVECO/FPT INDUSTRIAL S.P.A. MODEL F2CE9685A-E TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

1. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. This IC engine shall only be used for the growing and harvesting of crops or the raising of fowl or animals for the primary purpose of making a profit, providing a livelihood, or conducting agricultural research or instruction by an educational institution. [District Rule 4701 and 17 CCR 93115]
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (a flapper type is acceptable), roof overhang, or any other obstruction. [District Rule 4102]
4. This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR Part 60 Subpart III]
7. Emissions from this IC engine shall not exceed any of the following limits: 2.47 g-NOx/bhp-hr, 0.4 g-CO/bhp-hr, or 0.13 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
8. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
9. {3478} During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations or to supply power while maintenance is performed or repairs are made to the primary power supply. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 2201 and 4702, and 40 CFR Part 60 Subpart III]
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115]
15. 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 Rules 4701 and 4702, and 17 CCR 93115]
16. This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]

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

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# ATTACHMENT B

Previous Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

**FACILITY:** N-5526-0-1

**EXPIRATION DATE:** 12/31/2017

## **FACILITY-WIDE REQUIREMENTS**

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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; Stanislaus County Rule 110] 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; Stanislaus County Rule 110] Federally Enforceable Through Title V Permit
3. 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] Federally Enforceable Through Title V Permit
4. 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; and 2020] Federally Enforceable Through Title V Permit
5. 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; 2080; and 2520] Federally Enforceable Through Title V Permit
6. 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. 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. 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] Federally Enforceable Through Title V Permit
9. 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] 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: RAINBOW FARMS  
Location: 1220 HALL RD, DENAIR, CA 95316  
N-5526-0-1 : Nov 6 2018 10:52AM -- KAHLONJ

10. 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] Federally Enforceable Through Title V Permit
11. 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 and 1100] Federally Enforceable Through Title V Permit
12. 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] Federally Enforceable Through Title V Permit
13. 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] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520] Federally Enforceable Through Title V Permit
16. 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] Federally Enforceable Through Title V Permit
17. 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] Federally Enforceable Through Title V Permit
18. 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] Federally Enforceable Through Title V Permit
19. 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] Federally Enforceable Through Title V Permit
20. 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] Federally Enforceable Through Title V Permit
21. 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] Federally Enforceable Through Title V Permit
22. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601] Federally Enforceable Through Title V Permit
23. 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] 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.

24. 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] Federally Enforceable Through Title V Permit
25. 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
26. 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
27. 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 Rules 8011 and 8021] Federally Enforceable Through Title V Permit
28. 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 Rules 8011 and 8031] Federally Enforceable Through Title V Permit
29. 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 Rules 8011 and 8041] Federally Enforceable Through Title V Permit
30. 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 Rules 8011 and 8051] Federally Enforceable Through Title V Permit
31. 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 Rules 8011 and 8061] Federally Enforceable Through Title V Permit
32. 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 Rules 8011 and 8071] Federally Enforceable Through Title V Permit
33. The owner or operator shall comply with Sections 5.1 through 5.3 of District Rule 8081 and shall sufficiently implement at least one of the control measures indicated in each section of Table 8081-1 to limit Visible Dust Emissions to 20% opacity or to comply with the conditions for a stabilized surface as defined in Rule 8011, unless specifically exempted under Section 4.0 of Rule 8081 (9/16/2004) or Rule 8011 (8/19/2004). The owner or operator shall also comply with all applicable requirements of Regulation VIII unless specifically exempted by the applicable rules. [District Rule 8081 and 8011] Federally Enforceable Through Title V Permit
34. 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

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

35. 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] Federally Enforceable Through Title V Permit
36. 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] Federally Enforceable Through Title V Permit
37. 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] Federally Enforceable Through Title V Permit
38. 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 1070 and 2520] Federally Enforceable Through Title V Permit
39. 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 1070 and 2520] Federally Enforceable Through Title V Permit
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. The owner or operator shall implement the applicable conservation management practices (CMP) selected in the approved CMP plan pursuant to Section 6.2 of District Rule 4550 (8/19/04). The owner or operator shall submit a CMP application to the APCO prepared pursuant to Section 6.1 of District Rule 4550 (8/19/04) within 90 days for an agricultural operation site or an agricultural parcel that is acquired or becomes subject to District Rule 4550 and within 60 days of any operational, administrative, or other modification that necessitates revision of the CMP Plan. The owner or operator shall maintain a copy of each CMP application, CMP plan, and any supporting information necessary to confirm the implementation of the CMPs for a minimum of five (5) years. [District Rule 4550] Federally Enforceable Through Title V Permit
42. This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]
43. On August 31, 2013, the initial Title V permit was issued. [District Rule 2520] Federally Enforceable Through Title V Permit
44. On August 31, 2013, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin September 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after 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.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-1-4

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

LAYING HEN RANCH INCLUDING 1,786,000 LAYERS CONSISTING OF 23 MECHANICALLY VENTILATED LAYER HOUSES INCLUDING ELECTRIC FANS TOTALING 624 HP

## PERMIT UNIT REQUIREMENTS

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1. Permittee shall implement and maintain all the mitigation measures contained in this permit no later than December 25, 2013 [District Rule 4570] Federally Enforceable Through Title V Permit
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570] Federally Enforceable Through Title V Permit
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Permittee shall feed animals additives such as amylase, xylanase, and protease, designed to maximize digestive efficiency. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall maintain records that demonstrate animals are fed feed additives such as amylase, xylanase, and protease. Records such as feed company guaranteed analyses (feed tags), ration sheets, or feed purchase records may be used to meet this. [District Rule 4570] Federally Enforceable Through Title V Permit
6. Permittee shall use drinkers that do not drip continuously. [District Rule 4570] Federally Enforceable Through Title V Permit
7. Permittee shall inspect water pipes and drinkers and repair leaks daily. [District Rule 4570] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records indicating that water pipes and drinkers are inspected daily and that any leaks are repaired. [District Rule 4570] Federally Enforceable Through Title V Permit
9. Permittee shall maintain a record of the number of animals of each species and production group at the facility and shall maintain quarterly records of any changes to this information. [District Rule 4570] Federally Enforceable Through Title V Permit
10. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-2-3

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

SOLID MANURE HANDLING SYSTEM CONSISTING OF OPEN MANURE STOCK PILES WITH SOLID MANURE APPLICATION TO LAND, OFFSITE HAULING, AND ON-SITE COMPOSTING

## PERMIT UNIT REQUIREMENTS

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1. Permittee shall implement and maintain all the mitigation measures contained in this permit no later than December 25, 2013. [District Rule 4570] Federally Enforceable Through Title V Permit
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570] Federally Enforceable Through Title V Permit
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Within seventy two (72) hours of removal of solid manure from housing, permittee shall either 1) remove all litter/manure from the facility, or 2) cover litter/manure outside the housing with a weatherproof covering from October through May, except for times when wind events remove the covering, not to exceed twenty-four (24) hours per event. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall keep records of dates when litter/manure is removed from the facility; manure hauling invoices may be used to meet this requirement, or permittee shall maintain records to demonstrate that litter/manure piles outside the pens are covered with a weatherproof covering from October through May. [District Rule 4570] Federally Enforceable Through Title V Permit
6. If weatherproof coverings are used, permittee shall maintain records, such as manufacturer warranties or other documentation, demonstrating that the weatherproof covering over dry manure are installed, used, and maintained in accordance with manufacturer recommendations and applicable standards listed in NRCS Field Office Technical Guide Code 313 or 367, or any other applicable standard approved by the APCO, ARB, and EPA. [District Rule 4570] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-4-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

234 BHP CATERPILLAR MODEL 3306D1 (S/N: 85Z11102) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR (PEPPER)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-6-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

147 BHP DEUTZ MODEL 1013FC (S/N: 00410072) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (CORTEZ)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-7-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

1,839 BHP CATERPILLAR MODEL 3306DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (HALL)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-9-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

450 BHP GENERAL MOTORS MODEL W-LS-TT (S/N: 500-600) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SHASTA)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-10-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

450 BHP DETROIT MODEL 12V71 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SIERRA)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-12-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

450 BHP DAEWOO MODEL P180LE(G) (S/N: 401438EASOC) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (VEGAS)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-13-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

300 BHP GENERAL MOTORS MODEL 500-600 (S/N: 514769) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR (YOSEMITE)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-14-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1,000 GALLON ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-142-B), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

## PERMIT UNIT REQUIREMENTS

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1. The Phase I vapor recovery system shall be installed and maintained in accordance with the manufacturer specifications and the ARB Executive Order specified in this permit, including applicable rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, the Division of Occupational Safety and Health of the Department of Industrial Relations, and the Division of Water Quality of the State Water Resources Control Board that have been made conditions of the certification. [District Rule 4621] Federally Enforceable Through Title V Permit
2. The storage container(s) shall be installed, maintained, and operated such that they are leak-free. [District Rule 4621] Federally Enforceable Through Title V Permit
3. The Phase I vapor recovery systems and gasoline dispensing equipment shall be maintained without leaks as determined in accordance with the test method specified in this permit. [District Rule 4621] Federally Enforceable Through Title V Permit
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute, or the detection of any gaseous or vapor emissions with a concentration of total organic compound greater than 10,000 ppmv, as methane, above background when measured in accordance with EPA Test Method 21. [District Rule 4621] Federally Enforceable Through Title V Permit
5. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo container, which attest to the vapor integrity of the container. [District Rule 4621] Federally Enforceable Through Title V Permit
6. The permittee shall conduct periodic maintenance inspections based on the greatest monthly throughput of gasoline dispensed by the facility in the previous year as follows: A) less than 2,500 gallons - one day per month; B) 2,500 to less than 25,000 gallons - one day per week; or C) 25,000 gallons or greater - five days per week. All inspections shall be documented within the O & M Manual. [District Rule 4621] Federally Enforceable Through Title V Permit
7. Periodic maintenance inspections of the Phase I vapor recovery system shall include, at a minimum, verification that 1) the fill caps and vapor caps are not missing, damaged, or loose; 2) the fill cap gasket and vapor cap gaskets are not missing or damaged; 3) the fill adapter and vapor adapter are securely attached to the risers; 4) where applicable, the spring-loaded submerged fill tube seals properly against the coaxial tubing; 5) the dry break (poppet-valve) is not missing or damaged; and 6) the submerged fill tube is not missing or damaged. [District Rule 4621] Federally Enforceable Through Title V Permit
8. The permittee shall conduct all periodic vapor recovery system performance tests specified in this permit, no more than 30 days before or after the required compliance testing date, unless otherwise required under the applicable ARB Executive Order. [District Rule 4621] 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.

9. The permittee shall perform and pass a Static Leak Test for Aboveground Tanks using ARB TP-201.3B or TP-206.3 at least once every 36 months. [District Rule 4621] Federally Enforceable Through Title V Permit
10. The permittee shall notify the District at least 7 days prior to each performance test. The test results shall be submitted to the District no later than 30 days after the completion of each test. [District Rule 4621] Federally Enforceable Through Title V Permit
11. A person performing installation of, or maintenance on, a certified Phase I vapor recovery system shall be certified by the ICC for Vapor Recovery System Installation and Repair, or work under the direct and personal supervision of an individual physically present at the work site who is certified. The ICC certification shall be renewed every 24 months. [District Rule 4621] Federally Enforceable Through Title V Permit
12. Proof of the ICC certification and all other certifications required by the Executive Order and installation and operation manual shall be made available onsite. [District Rule 4621] Federally Enforceable Through Title V Permit
13. A person conducting testing of, or repairs to, a certified vapor recovery system shall be in compliance with District Rule 1177 (Gasoline Dispensing Facility Tester Certification). [District Rule 4621]
14. Total gasoline throughput for the facility shall not exceed either of the following: 10,000 gallons in any consecutive 30-day period or 24,000 gallons per calendar year. If throughput exceeds stated limits, the permittee shall submit a complete application for an Authority to Construct (ATC) to the District within 30 days of the loss of exemption and install and test a certified Phase II vapor recovery system within six (6) months from the date the ATC is issued. [District Rule 4622] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly and annual gasoline throughput records. The records should allow the gasoline throughput for any 30-day period to be continuously determined. These records shall be maintained on the premises as long as exempt status is claimed. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
16. All records required by this permit shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rule 4621] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-19-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

490 BHP DETROIT DIESEL MODEL 606MK35 SPECB34450 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR §63.6625 (f)] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
7. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

11. 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 and 40 CFR §63.6660] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)] Federally Enforceable Through Title V Permit
13. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR §63.6585/63.6595(a)] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR §63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR §63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-20-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801] Federally Enforceable Through Title V Permit
3. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302] Federally Enforceable Through Title V Permit
4. Emission rates from this unit shall not exceed any of the following limits: 0.000883 lb-NOX/lb-poultry carcasses; 0.0016 lb-SOX/lb-poultry carcasses; 0.0062 lb-CO/lb-poultry carcasses; 0.0013 lb-PM10/lb-poultry carcasses; and 0.0002 lb-VOC/lb-poultry carcasses. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum poultry incinerator charging rate shall not exceed 600 lb-poultry carcasses per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily records of weight of poultry carcasses incinerated in each incinerator shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-21-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801] Federally Enforceable Through Title V Permit
3. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302] Federally Enforceable Through Title V Permit
4. Emission rates from this unit shall not exceed any of the following limits: 0.000883 lb-NOX/lb-poultry carcasses; 0.0016 lb-SOX/lb-poultry carcasses; 0.0062 lb-CO/lb-poultry carcasses; 0.0013 lb-PM10/lb-poultry carcasses; and 0.0002 lb-VOC/lb-poultry carcasses. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The maximum poultry incinerator charging rate shall not exceed 600 lb-poultry carcasses per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily records of weight of poultry carcasses incinerated in each incinerator shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-22-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

871 BHP DAEWOO MODEL P222LE TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR (FORMERLY N-5526-5-0)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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] Federally Enforceable Through Title V Permit
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 6.12 g-NOx/bhp-hr, 0.70 g-CO/bhp-hr, or 0.03 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.07 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-23-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

ORGANIC WASTE MATERIAL RECEIVING, STORAGE, AND MIXING OPERATION

## PERMIT UNIT REQUIREMENTS

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1. All material for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. The combined quantity of animal manure, poultry litter and agricultural waste received and/or generated shall not exceed 19,062 wet tons (28,600 cubic yards) in any 12-month rolling period. [District Rule 2010] Federally Enforceable Through Title V Permit
3. The permittee shall test the carbon to nitrogen ratio of the composting material when it is prepared for active composting using TMECC Method 05.02A (Carbon to Nitrogen Ratio). Testing shall be done each day that materials are mixed and test samples shall be representative of the initial composition of the active compost pile. [District Rule 4565] Federally Enforceable Through Title V Permit
4. If the tested parameters of the mitigation measure are found to be outside the applicable limits the permittee shall take corrective action, within 24 hours of discovery, to bring the pile characteristics to within the specified limits. [District Rule 4565] Federally Enforceable Through Title V Permit
5. The permittee shall maintain a record indicating a record indicating the date and the tested carbon to nitrogen ratio of the composting material prepared and mixed for active composting use. [District Rule 4565] Federally Enforceable Through Title V Permit
6. The permittee shall record on a daily basis the quantity of organic waste material received that would be used in the compost/co-compost operation. [District Rule 4565] Federally Enforceable Through Title V Permit
7. The permittee shall maintain a cumulative annual log and the log shall include the following: (a) Total quantity and type of each organic waste material received and/or generated onsite (in wet tons); (b) Total quantity and type of each organic waste material mixed for composting (in wet tons). The records shall be updated at least monthly. [District Rule 1070] Federally Enforceable Through Title V Permit
8. All bulk material transport vehicles shall limit the Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
9. 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 or Rule 8011. [District Rule 8041] Federally Enforceable Through Title V Permit
10. Any open area having 3.0 acres, or more, of disturbed surface area that has remained undeveloped, unoccupied, unused or vacant for more than seven days shall comply with the requirements of District Rule 8051 (Open Areas), unless specifically exempted under Section 4.0 [District Rule 8051] 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.

11. Any new or existing public or private paved or unpaved road, road construction project, or road modification project shall be implement the control measures and design criteria of, and comply with the requirements of District Rule 8061 (Paved and Unpaved Roads), unless specifically exempted under Section 4.0 of Rule 8061. [District Rule 8061] Federally Enforceable Through Title V Permit
12. Water, gravel, roadmix or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
13. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, the permittee shall apply water, gravel, road mix or chemical/organic dust stabilizers/suppressants, vegetative materials or other District approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
14. Whenever any portion of the site becomes inactive, the permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
15. All records shall be maintained and retained on-site for a minimum of five years and shall be made available for District, ARB or EPA inspection upon request. [District Rules 1070 and 4565] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-24-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

OPEN WINDROW ACTIVE AND CURING PHASE CO-COMPOSTING OPERATION

## PERMIT UNIT REQUIREMENTS

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1. All material for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. The permittee shall test the oxygen concentration of each active compost pile and each curing compost pile at least once per week using TMECC Method 05.08-C (In-Situ Oxygen Refresh Rate). [District Rule 4565] Federally Enforceable Through Title V Permit
3. The permittee shall test the moisture content of each active compost pile and each curing compost pile at least once per week using TMECC Method 03.09-C (Total Solids and Moisture at 70 +/- 5 degrees Centigrade). [District Rule 4565] Federally Enforceable Through Title V Permit
4. If the tested oxygen concentration and moisture content are found to be outside the applicable limits the permittee shall take corrective action, within 24 hours of discovery, to bring the pile characteristics to within the specified limits. [District Rule 4565] Federally Enforceable Through Title V Permit
5. The permittee shall maintain a record indicating the date and the tested oxygen concentration of each active compost pile and each curing compost pile. [District Rule 4565] Federally Enforceable Through Title V Permit
6. The permittee shall maintain a record indicating the date and the tested moisture content of each active compost pile and each curing compost pile. [District Rule 4565] Federally Enforceable Through Title V Permit
7. A daily record shall be maintained and shall include the following: (a) Total quantity of active phase composting piles utilized onsite (in wet tons); (b) Total quantity of curing phase composting piles utilized onsite (in wet tons). [District Rules 1070 and 4565] Federally Enforceable Through Title V Permit
8. A cumulative 12-month rolling period record log shall be maintained and shall include the following: (a) Total quantity and type of each organic waste material received and/or generated onsite (in wet tons); (b) Total quantity and type of each organic waste material mixed for composting (in wet tons). The records shall be updated at least monthly. [District Rule 1070] Federally Enforceable Through Title V Permit
9. The permittee shall maintain annual records indicating the quantity of biosolids, animal manure and poultry litter received, generated and composted on site, in tons per year. [District Rule 4565] Federally Enforceable Through Title V Permit
10. All bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
11. 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 or Rule 8011. [District Rule 8041] 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. Any open area having 3.0 acres, or more, of disturbed surface area that has remained undeveloped, unoccupied, unused or vacant for more than seven days shall comply with the requirements of District Rule 8051 (Open Areas), unless specifically exempted under Section 4.0 [District Rule 8051] Federally Enforceable Through Title V Permit
13. Any new or existing public or private paved or unpaved road, road construction project, or road modification project shall be implement the control measures and design criteria of, and comply with the requirements of District Rule 8061 (Paved and Unpaved Roads), unless specifically exempted under Section 4.0 of Rule 8061. [District Rule 8061] Federally Enforceable Through Title V Permit
14. Water, gravel, roadmix or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
15. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, the permittee shall apply water, gravel, road mix or chemical/organic dust stabilizers/suppressants, vegetative materials or other District approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
16. Whenever any portion of the site becomes inactive, the permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
17. All records shall be maintained and retained on-site for a minimum of five years and shall be made available for District, ARB or EPA inspection upon request. [District Rules 1070 and 4565] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-25-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

FINISHED COMPOST STORAGE AND LOADOUT OPERATION

## PERMIT UNIT REQUIREMENTS

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1. All material for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. All bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
3. 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 or Rule 8011. [District Rule 8041] Federally Enforceable Through Title V Permit
4. Any open area having 3.0 acres, or more, of disturbed surface area that has remained undeveloped, unoccupied, unused or vacant for more than seven days shall comply with the requirements of District Rule 8051 (Open Areas), unless specifically exempted under Section 4.0 [District Rule 8051] Federally Enforceable Through Title V Permit
5. Any new or existing public or private paved or unpaved road, road construction project, or road modification project shall be implement the control measures and design criteria of, and comply with the requirements of District Rule 8061 (Paved and Unpaved Roads), unless specifically exempted under Section 4.0 of Rule 8061. [District Rule 8061] Federally Enforceable Through Title V Permit
6. Water, gravel, roadmix or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
7. On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with 3 axles or more will occur on an unpaved vehicle/equipment traffic area, the permittee shall apply water, gravel, road mix or chemical/organic dust stabilizers/suppressants, vegetative materials or other District approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
8. Whenever any portion of the site becomes inactive, the permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in District Rule 8011. [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
9. All records shall be maintained and retained on-site for a minimum of five years and shall be made available for District, ARB or EPA inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-26-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

157 BHP PERKINS MODEL 1104D-E44TAG2 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 2.39 g-NOx/bhp-hr, 1.34 g-CO/bhp-hr, or 0.37 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-27-0

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

SHENANDOAH A-850 POULTRY INCINERATOR #1 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. 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]
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801]
5. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302]
6. Only CARB certified diesel fuel containing no more than 0.0015% sulfur by weight is to be used. [District Rule 2201]
7. Operation of the incinerator shall not exceed 9 hours in any one day. [District Rule 2201]
8. The quantity of poultry incinerated shall not exceed 850 pounds in any one day. [District Rule 2201]
9. NO<sub>x</sub> emissions shall not exceed 0.217 lb/MMBtu. [District Rule 2201]
10. SO<sub>x</sub> emissions shall not exceed 0.184 lb/MMBtu. [District Rule 2201]
11. CO emissions shall not exceed 1.53 lb/MMBtu. [District Rule 2201]
12. PM<sub>10</sub> emissions shall not exceed 0.0019 pounds per pound of poultry incinerated. [District Rule 2201]
13. VOC emissions shall not exceed 0.0002 pounds per pound of poultry incinerated. [District Rule 2201]
14. The permittee shall keep a daily record of the number of hours operated. [District Rule 2201]
15. The permittee shall keep a daily record of the quantity of poultry incinerated, in pounds. [District Rule 2201]
16. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4302]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-28-0

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

SHENANDOAH A-850 POULTRY INCINERATOR #2 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. 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]
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801]
5. The primary combustion chamber incinerator shall not be operated unless the secondary chamber (afterburner) is operating. [District Rule 4302]
6. Only CARB certified diesel fuel containing no more than 0.0015% sulfur by weight is to be used. [District Rule 2201]
7. Operation of the incinerator shall not exceed 9 hours in any one day. [District Rule 2201]
8. The quantity of poultry incinerated shall not exceed 850 pounds in any one day. [District Rule 2201]
9. NO<sub>x</sub> emissions shall not exceed 0.217 lb/MMBtu. [District Rule 2201]
10. SO<sub>x</sub> emissions shall not exceed 0.184 lb/MMBtu. [District Rule 2201]
11. CO emissions shall not exceed 1.53 lb/MMBtu. [District Rule 2201]
12. PM<sub>10</sub> emissions shall not exceed 0.0019 pounds per pound of poultry incinerated. [District Rule 2201]
13. VOC emissions shall not exceed 0.0002 pounds per pound of poultry incinerated. [District Rule 2201]
14. The permittee shall keep a daily record of the number of hours operated. [District Rule 2201]
15. The permittee shall keep a daily record of the quantity of poultry incinerated, in pounds. [District Rule 2201]
16. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4302]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-5526-29-1

**EXPIRATION DATE:** 12/31/2017

**EQUIPMENT DESCRIPTION:**

389 BHP (INTERMITTENT) IVECO/FPT INDUSTRIAL S.P.A. MODEL F2CE9685A-E TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. This IC engine shall only be used for the growing and harvesting of crops or the raising of fowl or animals for the primary purpose of making a profit, providing a livelihood, or conducting agricultural research or instruction by an educational institution. [District Rule 4701 and 17 CCR 93115]
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (a flapper type is acceptable), roof overhang, or any other obstruction. [District Rule 4102]
4. This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR Part 60 Subpart III]
7. Emissions from this IC engine shall not exceed any of the following limits: 2.47 g-NOx/bhp-hr, 0.4 g-CO/bhp-hr, or 0.13 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
8. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations or to supply power while maintenance is performed or repairs are made to the primary power supply. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 2201 and 4702, and 40 CFR Part 60 Subpart III]
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115]
15. 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 Rules 4701 and 4702, and 17 CCR 93115]
16. This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]

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

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# ATTACHMENT C

HAP Calculations

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Summary of Hazardous Air Pollutants  
(N-5526)

Substances	N-5526-1-4 (DPW)	N-5526-1-4 (Litter)	N-5526-1-4(HenLayingHouses)	N-5526-2-3	N-5526-4-1	N-5526-6-1	N-5526-7-1
1,3 Butadiene	--	--	--	--	0	0	0
2,2,4-Trimethylpentane	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	--	--
Acetaldehyde	--	--	--	--	0	0	0.1
Acrolein	--	--	--	--	--	--	--
Aluminum	41.8	19	--	--	--	--	--
Ammonia	--	--	198696.1	--	--	--	--
Anthracene	--	--	--	--	--	--	--
Arsenic	0.1	0.2	--	--	0	0	0
Barium	--	--	--	--	--	--	--
Benzene	--	--	210.6	--	0	0	0.2
Benzo(a)Anthracene	--	--	--	--	--	--	--
Benzo(a)Pyrene	--	--	--	--	--	--	--
Benzo(b)Fluoranthene	--	--	--	--	--	--	--
Benzo(e)Pyrene	--	--	--	--	--	--	--
Benzo(g,h,i)Perylene	--	--	--	--	--	--	--
Benzo(k)Fluoranthene	--	--	--	--	--	--	--
Beryllium	--	--	--	--	0	0	0
Cadmium	0	0	--	--	0	0	0
Carbon Disulfide	--	--	1543.5	--	--	--	--
Carbon Tetrachloride	--	--	--	--	0	0	0
Chlorobenzene	--	--	--	--	0	0	0
Chloroform	--	--	--	--	0	0	0
Chromium	0.2	0.2	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--
Cobalt	--	--	--	--	--	--	--
Copper	2.5	1.9	--	--	--	--	--
Dichlorofluoromethane	--	--	1877.4	--	--	--	--
Dioxin 4D	--	--	--	--	--	--	--
Dioxin 5D 12378	--	--	--	--	--	--	--
Dioxin 6D 123478	--	--	--	--	--	--	--
Dioxin 6D 123678	--	--	--	--	--	--	--
Dioxin 6D 123789	--	--	--	--	--	--	--
Dioxin 7D	--	--	--	--	--	--	--
Dioxin 8D	--	--	--	--	--	--	--
Ethyl benzene	--	--	--	--	--	--	--
Ethyl Chloride (Chloroethane)	--	--	--	--	--	--	--
Ethylene Dichloride	--	--	--	--	0	0	0
Fluoranthene	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--
Formaldehyde	--	--	--	--	0.2	0.1	1.3
Furan 4F	--	--	--	--	--	--	--
Furan 5F 12378	--	--	--	--	--	--	--
Furan 5F 23478	--	--	--	--	--	--	--
Furan 6F 123478	--	--	--	--	--	--	--
Furan 6F 123678	--	--	--	--	--	--	--
Furan 6F 123789	--	--	--	--	--	--	--
Furan 6F 234678	--	--	--	--	--	--	--
Furan 7F 1234678	--	--	--	--	--	--	--
Furan 7F 1234789	--	--	--	--	--	--	--
Furan 8F	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	--	--
Hexane	--	--	1015.7	--	--	--	--
Hexavalent Chromium**	0	0	--	--	0	0	0
Hydrochloric acid	--	--	--	--	--	--	--
Hydrogen Chloride	--	--	--	--	--	--	--
Hydrogen Fluoride	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	--	--	--	--	--	--	--
Isopropyl Alcohol	--	--	263.3	--	--	--	--
Lead	0.2	0.1	--	--	0	0	0
Manganese	12.2	8	--	--	0.1	0.1	1.1
Mercury	0	0	--	--	0	0	0
Methanol	--	--	26872.1	--	--	--	--
Methyl Chloride (Chloromethane)	--	--	--	--	--	--	--
Methyl Ethyl Ketone	--	--	486.6	--	--	--	--
Methyl isobutyl Ketone	--	--	255	--	--	--	--
Methylene Chloride	--	--	1511.5	--	0	0	0
Naphthalene	--	--	--	--	0	0	0.2
Nickel	--	--	--	--	0	0	0.1
PAHs	--	--	--	--	0	0	0.2
PCB 77 3,3',4,4'-tetra	--	--	--	--	--	--	--
PCB 81 3,4,4',5-tetra	--	--	--	--	--	--	--
PCB 105 2,3,3',4,4'-penta	--	--	--	--	--	--	--
PCB 114 2,3,4,4',5-penta	--	--	--	--	--	--	--
PCB 118 2,3',4,4',5-penta	--	--	--	--	--	--	--
PCB 123 2',3,4,4',5-penta	--	--	--	--	--	--	--
PCB 126 3,3',4,4',5-penta	--	--	--	--	--	--	--
PCB 156 2,3,3',4,4',5-hexa	--	--	--	--	--	--	--
PCB 157 2,3,3',4,4',5'-hexa	--	--	--	--	--	--	--
PCB 167 2,3',4,4',5,5'-hexa	--	--	--	--	--	--	--
PCB 169 3,3',4,4',5,5'-hexa	--	--	--	--	--	--	--
PCB 189 2,3,3',4,4',5,5'-hepta	--	--	--	--	--	--	--
p-Dichlorobenzene	--	--	--	--	0	0	0
Pentachlorophenol	--	--	--	--	--	--	--
Perchloroethylene	--	--	--	--	0	0	0
Perylene	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--
Phosphorus	871.2	688.6	--	--	--	--	--
Propionaldehyde	--	--	1361.1	--	--	--	--
Propylene	--	--	819.3	--	--	--	--
Pyrene	--	--	--	--	--	--	--
Sec-butyl alcohol	--	--	--	--	--	--	--
Selenium	0	0	--	--	0	0	0.1
Silver	--	--	--	--	--	--	--
Toluene	--	--	602.3	--	--	--	--
Total Chromium	--	--	--	--	--	--	--
Trichloroethylene	--	--	--	--	0	0	0
Vinyl Acetate	--	--	8590	--	--	--	--
Vinyl Chloride	--	--	--	--	0	0	0.1
Vinylidene Chloride	--	--	--	--	0	0	0
Xylene	--	--	--	--	--	--	--
Zinc	14.3	7.1	--	--	--	--	--

Summary of Hazardous Air Pollutants  
(N-5526)

Substances	N-5526-9-1	N-5526-10-1	N-5526-12-1	N-5526-13-1	N-5526-14-1	N-5526-19-1	N-5526-20-1_PoultryIncineration	N-5526-20-1_FuelCombustion	N-5526-21-1_PoultryIncineration
1,3 Butadiene	0	0	0	0	--	0	0	0.5	0
2,2,4-Trimethylpentane	--	--	--	--	2	--	--	--	--
Acenaphthene	--	--	--	--	--	--	0	--	0
Acenaphthylene	--	--	--	--	--	--	0	--	0
Acetaldehyde	0	0	0	0	--	0	--	11	--
Acrolein	--	--	--	--	--	--	--	11	--
Aluminum	--	--	--	--	--	--	--	--	--
Ammonia	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	0	--	0
Arsenic	0	0	0	0	--	0	0	0.1	0
Barium	--	--	--	--	--	--	0	--	0
Benzene	0	0	0	0	1.1	0	4	0.1	4
Benzo(a)Anthracene	--	--	--	--	--	--	0	--	0
Benzo(a)Pyrene	--	--	--	--	--	--	0	--	0
Benzo(b)Fluoranthene	--	--	--	--	--	--	0	--	0
Benzo(e)Pyrene	--	--	--	--	--	--	0	--	0
Benzo(g,h,i)Perylene	--	--	--	--	--	--	0	--	0
Benzo(k)Fluoranthene	--	--	--	--	--	--	0	--	0
Beryllium	0	0	0	0	--	0	--	--	--
Cadmium	0	0	0	0	--	0	0	0	0
Carbon Disulfide	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	0	0	0	0	--	0	--	--	--
Chlorobenzene	0	0	0	0	--	0	0	0	0
Chloroform	0	0	0	0	--	0	--	--	--
Chromium	--	--	--	--	--	--	0	--	0
Chrysene	--	--	--	--	--	--	0	--	0
Cobalt	--	--	--	--	--	--	--	--	--
Copper	--	--	--	--	--	--	0.1	0.1	0.1
Dichlorofluoromethane	--	--	--	--	--	--	--	--	--
Dioxin 4D	--	--	--	--	--	--	0	--	0
Dioxin 5D 12378	--	--	--	--	--	--	0	--	0
Dioxin 6D 123478	--	--	--	--	--	--	0	--	0
Dioxin 6D 123678	--	--	--	--	--	--	0	--	0
Dioxin 6D 123789	--	--	--	--	--	--	0	--	0
Dioxin 7D	--	--	--	--	--	--	0	--	0
Dioxin 8D	--	--	--	--	--	--	0	--	0
Ethyl benzene	--	--	--	--	3.9	--	0	0	0
Ethyl Chloride (Chloroethane)	--	--	--	--	--	--	0	--	0
Ethylene Dichloride	0	0	0	0	--	0	--	--	--
Fluoranthene	--	--	--	--	--	--	0	--	0
Fluorene	--	--	--	--	--	--	0	--	0
Formaldehyde	0.3	0.3	0.3	0.2	--	0.4	--	11	--
Furan 4F	--	--	--	--	--	--	0	--	0
Furan 5F 12378	--	--	--	--	--	--	0	--	0
Furan 5F 23478	--	--	--	--	--	--	0	--	0
Furan 6F 123478	--	--	--	--	--	--	0	--	0
Furan 6F 123678	--	--	--	--	--	--	0	--	0
Furan 6F 123789	--	--	--	--	--	--	0	--	0
Furan 6F 234678	--	--	--	--	--	--	0	--	0
Furan 7F 1234678	--	--	--	--	--	--	0	--	0
Furan 7F 1234789	--	--	--	--	--	--	0	--	0
Furan 8F	--	--	--	--	--	--	0	--	0
Hexachlorobenzene	--	--	--	--	--	--	0	--	0
Hexane	--	--	--	--	3.9	--	--	0.1	--
Hexavalent Chromium**	0	0	0	0	--	0	0	0	0
Hydrochloric acid	--	--	--	--	--	--	141	--	141
Hydrogen Chloride	--	--	--	--	--	--	--	5.8	--
Hydrogen Fluoride	--	--	--	--	--	--	4.3	--	4.3
Indeno(1,2,3-cd)Pyrene	--	--	--	--	--	--	0	--	0
Isopropyl Alcohol	--	--	--	--	--	--	--	--	--
Lead	0	0	0	0	--	0	0.5	0.3	0.5
Manganese	0.3	0.3	0.3	0.2	--	0.3	0	0.1	0
Mercury	0	0	0	0	--	0	0	0.1	0
Methanol	--	--	--	--	--	--	--	--	--
Methyl Chloride (Chloromethane)	--	--	--	--	--	--	0	--	0
Methyl Ethyl Ketone	--	--	--	--	--	--	--	--	--
Methyl isobutyl Ketone	--	--	--	--	--	--	--	--	--
Methylene Chloride	0	0	0	0	--	0	0	--	0
Naphthalene	0.1	0.1	0.1	0	--	0.1	0.4	0.2	0.4
Nickel	0	0	0	0	--	0	0	0.1	0
PAHs	0.1	0.1	0.1	0	1.4	0.1	--	1.4	--
PCB 77 3,3',4,4'-tetra	--	--	--	--	--	--	0	--	0
PCB 81 3,4,4',5-tetra	--	--	--	--	--	--	0	--	0
PCB 105 2,3,3',4,4'-penta	--	--	--	--	--	--	0	--	0
PCB 114 2,3,4,4',5-penta	--	--	--	--	--	--	0	--	0
PCB 118 2,3',4,4',5-penta	--	--	--	--	--	--	0	--	0
PCB 123 2',3,4,4',5-penta	--	--	--	--	--	--	0	--	0
PCB 126 3,3',4,4',5-penta	--	--	--	--	--	--	0	--	0
PCB 156 2,3,3',4,4',5-hexa	--	--	--	--	--	--	0	--	0
PCB 157 2,3,3',4,4',5'-hexa	--	--	--	--	--	--	0	--	0
PCB 167 2,3',4,4',5,5'-hexa	--	--	--	--	--	--	0	--	0
PCB 169 3,3',4,4',5,5'-hexa	--	--	--	--	--	--	0	--	0
PCB 189 2,3,3',4,4',5,5'-hepta	--	--	--	--	--	--	0	--	0
p-Dichlorobenzene	0	0	0	0	--	0	--	--	--
Pentachlorophenol	--	--	--	--	--	--	0	--	0
Perchloroethylene	0	0	0	0	--	0	--	--	--
Perylene	--	--	--	--	--	--	0	--	0
Phenanthrene	--	--	--	--	--	--	0.1	--	0.1
Phosphorus	--	--	--	--	--	--	--	--	--
Propionaldehyde	--	--	--	--	--	--	--	--	--
Propylene	--	--	--	--	--	--	--	0.3	--
Pyrene	--	--	--	--	--	--	0	--	0
Sec-butyl alcohol	--	--	--	--	--	--	--	--	--
Selenium	0	0	0	0	--	0	0	0.1	0
Silver	--	--	--	--	--	--	0	--	0
Toluene	--	--	--	--	3.1	--	0.6	0.1	0.6
Total Chromium	--	--	--	--	--	--	--	0	--
Trichloroethylene	0	0	0	0	--	0	--	--	--
Vinyl Acetate	--	--	--	--	--	--	--	--	--
Vinyl Chloride	0	0	0	0	--	0	0	--	0
Vinylidene Chloride	0	0	0	0	--	0	--	--	--
Xylene	--	--	--	--	1.1	--	0.1	0.1	0.1
Zinc	--	--	--	--	--	--	3.6	0.7	3.6

Summary of Hazardous Air Pollutants  
(N-5526)

Substances	N-5526-21-1_FuelCombustion	N-5526-22-1	N-5526-23-1 (PM10)	N-5526-23-1 (VOC & NH3)	N-5526-24-1 (PM10)	N-5526-24-1 (VOC & NH3)	N-5526-25-1 (PM10)	N-5526-26-1
1,3 Butadiene	0.5	0	--	--	--	--	--	0
2,2,4-Trimethylpentane	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	--	--	--
Acetaldehyde	11	0	--	143	--	47.5	--	0
Acrolein	11	--	--	--	--	--	--	--
Aluminum	--	--	0.3	--	0.1	--	0.1	--
Ammonia	--	--	--	1144	--	55852	--	--
Anthracene	--	--	--	--	--	--	--	--
Arsenic	0.1	0	0	--	0	--	0	0
Barium	--	--	--	--	--	--	--	--
Benzene	0.1	0	--	--	--	--	--	0
Benzo(a)Anthracene	--	--	--	--	--	--	--	--
Benzo(a)Pyrene	--	--	--	--	--	--	--	--
Benzo(b)Fluoranthene	--	--	--	--	--	--	--	--
Benzo(e)Pyrene	--	--	--	--	--	--	--	--
Benzo(g,h,i)Perylene	--	--	--	--	--	--	--	--
Benzo(k)Fluoranthene	--	--	--	--	--	--	--	--
Beryllium	--	0	--	--	--	--	--	0
Cadmium	0	0	0	--	0	--	0	0
Carbon Disulfide	--	--	--	--	--	--	--	--
Carbon Tetrachloride	--	0	--	--	--	--	--	0
Chlorobenzene	0	0	--	--	--	--	--	0
Chloroform	--	0	--	--	--	--	--	0
Chromium	--	--	0	--	0	--	0	--
Chrysene	--	--	--	--	--	--	--	--
Cobalt	--	--	0	--	0	--	0	--
Copper	0.1	--	0	--	0	--	0	--
Dichlorofluoromethane	--	--	--	--	--	--	--	--
Dioxin 4D	--	--	--	--	--	--	--	--
Dioxin 5D 12378	--	--	--	--	--	--	--	--
Dioxin 6D 123478	--	--	--	--	--	--	--	--
Dioxin 6D 123678	--	--	--	--	--	--	--	--
Dioxin 6D 123789	--	--	--	--	--	--	--	--
Dioxin 7D	--	--	--	--	--	--	--	--
Dioxin 8D	--	--	--	--	--	--	--	--
Ethyl benzene	0	--	--	--	--	--	--	--
Ethyl Chloride (Chloroethane)	--	--	--	--	--	--	--	--
Ethylene Dichloride	--	0	--	--	--	--	--	0
Fluoranthene	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--
Formaldehyde	11	0.3	--	--	--	--	--	0.1
Furan 4F	--	--	--	--	--	--	--	--
Furan 5F 12378	--	--	--	--	--	--	--	--
Furan 5F 23478	--	--	--	--	--	--	--	--
Furan 6F 123478	--	--	--	--	--	--	--	--
Furan 6F 123678	--	--	--	--	--	--	--	--
Furan 6F 123789	--	--	--	--	--	--	--	--
Furan 6F 234678	--	--	--	--	--	--	--	--
Furan 7F 1234678	--	--	--	--	--	--	--	--
Furan 7F 1234789	--	--	--	--	--	--	--	--
Furan 8F	--	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	--	--	--
Hexane	0.1	--	--	--	--	--	--	--
Hexavalent Chromium**	0	0	--	--	--	--	--	0
Hydrochloric acid	--	--	--	--	--	--	--	--
Hydrogen Chloride	5.8	--	--	--	--	--	--	--
Hydrogen Fluoride	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)Pyrene	--	--	--	--	--	--	--	--
Isopropyl Alcohol	--	--	--	43229	--	14355.8	--	--
Lead	0.3	0	0	--	0	--	0	0
Manganese	0.1	0.2	0	--	0	--	0	0
Mercury	0.1	0	0	--	0	--	0	0
Methanol	--	--	--	13067.8	--	4339.6	--	--
Methyl Chloride (Chloromethane)	--	--	--	--	--	--	--	--
Methyl Ethyl Ketone	--	--	--	--	--	--	--	--
Methyl isobutyl Ketone	--	--	--	--	--	--	--	--
Methylene Chloride	--	0	--	--	--	--	--	0
Naphthalene	0.2	0	--	510.9	--	169.7	--	0
Nickel	0.1	0	0	--	0	--	0	0
PAHs	1.4	0	--	--	--	--	--	0
PCB 77 3,3',4,4'-tetra	--	--	--	--	--	--	--	--
PCB 81 3,4,4',5-tetra	--	--	--	--	--	--	--	--
PCB 105 2,3,3',4,4'-penta	--	--	--	--	--	--	--	--
PCB 114 2,3,4,4',5-penta	--	--	--	--	--	--	--	--
PCB 118 2,3',4,4',5-penta	--	--	--	--	--	--	--	--
PCB 123 2',3,4,4',5-penta	--	--	--	--	--	--	--	--
PCB 126 3,3',4,4',5-penta	--	--	--	--	--	--	--	--
PCB 156 2,3,3',4,4',5-hexa	--	--	--	--	--	--	--	--
PCB 157 2,3,3',4,4',5'-hexa	--	--	--	--	--	--	--	--
PCB 167 2,3',4,4',5,5'-hexa	--	--	--	--	--	--	--	--
PCB 169 3,3',4,4',5,5'-hexa	--	--	--	--	--	--	--	--
PCB 189 2,3,3',4,4',5,5'-hepta	--	--	--	--	--	--	--	--
p-Dichlorobenzene	--	0	--	--	--	--	--	0
Pentachlorophenol	--	--	--	--	--	--	--	--
Perchloroethylene	--	0	--	--	--	--	--	0
Perylene	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--
Phosphorus	--	--	0.6	--	0.3	--	0.1	--
Propionaldehyde	--	--	--	--	--	--	--	--
Propylene	0.3	--	--	--	--	--	--	--
Pyrene	--	--	--	--	--	--	--	--
Sec-butyl alcohol	--	--	--	398.5	--	132.3	--	--
Selenium	0.1	0	0	--	0	--	0	0
Silver	--	--	--	--	--	--	--	--
Toluene	0.1	--	--	--	--	--	--	--
Total Chromium	0	--	--	--	--	--	--	--
Trichloroethylene	--	0	--	--	--	--	--	0
Vinyl Acetate	--	--	--	--	--	--	--	--
Vinyl Chloride	--	0	--	--	--	--	--	0
Vinylidene Chloride	--	0	--	--	--	--	--	0
Xylene	0.1	--	--	--	--	--	--	--
Zinc	0.7	--	0	--	0	--	0	--

Summary of Hazardous Air Pollutants  
(N-5526)

Substances	N-5526-27- 0_FuelCombustion	N-5526-27- 0_PoultryIncinerati on	N-5526-28- 0_FuelCombustion	N-5526-28- 0_PoultryIncinerati on	N-5526-29-1	Total, all permit units (lb/yr)	HAP?	HAP, Total of all permit units (lb/yr)	
1,3 Butadiene	0.2	0.1	0.2	0.1	0	1.6	Y	1.6	
2,2,4-Trimethylpentane	--	--	--	--	--	2	Y	2	
Acenaphthene	--	0	--	0	--	0			
Acenaphthylene	--	0	--	0	--	0			
Acetaldehyde	4.1	--	4.1	--	0	220.8	Y	220.8	
Acrolein	4.1	--	4.1	--	--	30.2	Y	30.2	
Aluminum	--	--	--	--	--	61.3			
Ammonia	--	--	--	--	--	255692.1			
Anthracene	--	0	--	0	--	0			
Arsenic	0	0	0	0	0	0.5	Y	0.5	
Barium	--	0	--	0	--	0			
Benzene	0.1	5.7	0.1	5.7	0	231.7	Y	231.7	
Benzo(a)Anthracene	--	0	--	0	--	0			
Benzo(a)Pyrene	--	0	--	0	--	0			
Benzo(b)Fluoranthene	--	0	--	0	--	0			
Benzo(e)Pyrene	--	0	--	0	--	0			
Benzo(g,h,i)Perylene	--	0	--	0	--	0			
Benzo(k)Fluoranthene	--	0	--	0	--	0			
Beryllium	--	--	--	--	0	0	Y	0	
Cadmium	0	0	0	0	0	0	Y	0	
Carbon Disulfide	--	--	--	--	--	1543.5	Y	1543.5	
Carbon Tetrachloride	--	--	--	--	0	0	Y	0	
Chlorobenzene	0	0	0	0	0	0	Y	0	
Chloroform	--	--	--	--	0	0	Y	0	
Chromium	--	0	--	0	--	0.4	Y	0.4	
Chrysene	--	0	--	0	--	0			
Cobalt	--	--	--	--	--	0	Y	0	
Copper	0	0.2	0	0.2	--	5.2			
Dichlorofluoromethane	--	--	--	--	--	1877.4			
Dioxin 4D	--	0	--	0	--	0			
Dioxin 5D 12378	--	0	--	0	--	0			
Dioxin 6D 123478	--	0	--	0	--	0			
Dioxin 6D 123678	--	0	--	0	--	0			
Dioxin 6D 123789	--	0	--	0	--	0			
Dioxin 7D	--	0	--	0	--	0			
Dioxin 8D	--	0	--	0	--	0	Y	0	
Ethyl benzene	0	0.1	0	0.1	--	4.1	Y	4.1	
Ethyl Chloride (Chloroethane)	--	0	--	0	--	0	Y	0	
Ethylene Dichloride	--	--	--	--	0	0	Y	0	
Fluoranthene	--	0	--	0	--	0			
Fluorene	--	0	--	0	--	0			
Formaldehyde	4.1	--	4.1	--	0.3	34	Y	34	
Furan 4F	--	0	--	0	--	0			
Furan 5F 12378	--	0	--	0	--	0			
Furan 5F 23478	--	0	--	0	--	0			
Furan 6F 123478	--	0	--	0	--	0			
Furan 6F 123678	--	0	--	0	--	0			
Furan 6F 123789	--	0	--	0	--	0			
Furan 6F 234678	--	0	--	0	--	0			
Furan 7F 1234678	--	0	--	0	--	0			
Furan 7F 1234789	--	0	--	0	--	0			
Furan 8F	--	0	--	0	--	0			
Hexachlorobenzene	--	0	--	0	--	0	Y	0	
Hexane	0	--	0	--	--	1019.8	Y	1019.8	
Hexavalent Chromium**	0	0	0	0	0	0	Y	0	
Hydrochloric acid	--	199.7	--	199.7	--	681.4	Y	681.4	
Hydrogen Chloride	2.2	--	2.2	--	--	16	Y	16	
Hydrogen Fluoride	--	6	--	6	--	20.6	Y	20.6	
Indeno(1,2,3-cd)Pyrene	--	0	--	0	--	0			
Isopropyl Alcohol	--	--	--	--	--	57848.1			
Lead	0.1	0.7	0.1	0.7	0	3.5	Y	3.5	
Manganese	0	0	0	0	0.2	23.5	Y	23.5	
Mercury	0	0	0	0	0	0.2	Y	0.2	
Methanol	--	--	--	--	--	44279.5	Y	44279.5	
Methyl Chloride (Chloromethane)	--	0	--	0	--	0	Y	0	
Methyl Ethyl Ketone	--	--	--	--	--	486.6			
Methyl isobutyl Ketone	--	--	--	--	--	255	Y	255	
Methylene Chloride	--	0	--	0	0	1511.5	Y	1511.5	
Naphthalene	0.1	0.6	0.1	0.6	0	683.8	Y	683.8	
Nickel	0	0	0	0	0	0.3	Y	0.3	
PAHs	0.5	--	0.5	--	0	5.8	Y	5.8	
PCB 77 3,3',4,4'-tetra	--	0	--	0	--	0	Y	0	
PCB 81 3,4,4',5-tetra	--	0	--	0	--	0	Y	0	
PCB 105 2,3,3',4,4'-penta	--	0	--	0	--	0	Y	0	
PCB 114 2,3,4,4',5-penta	--	0	--	0	--	0	Y	0	
PCB 118 2,3',4,4',5-penta	--	0	--	0	--	0	Y	0	
PCB 123 2',3,4,4',5-penta	--	0	--	0	--	0	Y	0	
PCB 126 3,3',4,4'5-penta	--	0	--	0	--	0	Y	0	
PCB 156 2,3,3',4,4',5-hexa	--	0	--	0	--	0	Y	0	
PCB 157 2,3,3',4,4',5'-hexa	--	0	--	0	--	0	Y	0	
PCB 167 2,3',4,4',5,5'-hexa	--	0	--	0	--	0	Y	0	
PCB 169 3,3',4,4',5,5'-hexa	--	0	--	0	--	0	Y	0	
PCB 189 2,3,3',4,4',5,5'-hepta	--	0	--	0	--	0	Y	0	
p-Dichlorobenzene	--	--	--	--	0	0	Y	0	
Pentachlorophenol	--	0	--	0	--	0	Y	0	
Perchloroethylene	--	--	--	--	0	0	Y	0	
Perylene	--	0	--	0	--	0			
Phenanthrene	--	0.2	--	0.2	--	0.6			
Phosphorus	--	--	--	--	--	1560.8	Y	1560.8	
Propionaldehyde	--	--	--	--	--	1361.1			
Propylene	0.1	--	0.1	--	--	820.1			
Pyrene	--	0	--	0	--	0			
Sec-butyl alcohol	--	--	--	--	--	530.8			
Selenium	0	0	0	0	0	0.3	Y	0.3	
Silver	--	0	--	0	--	0			
Toluene	0.1	0.8	0.1	0.8	--	608.6	Y	608.6	
Total Chromium	0	--	0	--	--	0	Y	0	
Trichloroethylene	--	--	--	--	0	0			
Vinyl Acetate	--	--	--	--	--	8590	Y	8590	
Vinyl Chloride	--	0	--	0	0	0.1	Y	0.1	
Vinylidene Chloride	--	--	--	--	0	0	Y	0	
Xylene	0	0.1	0	0.1	--	1.7	Y	1.7	
Zinc	0.3	5.2	0.3	5.2	--	41			
							Total:	61331.2	lb/yr
								30.7	tons/yr

N-5526-1-4 (DPW&Litter)  
 LAYING HEN RANCH INCLUDING 1,786,000 LAYERS CONSISTING OF 23 MECHANICALLY VENTILATED LAYER HOUSES  
 INCLUDING ELECTRIC FANS TOTALING 624 HP

Substances	CAS#	Wt. fraction Dried Polutry Waste (DPW)*		Emissions DPW*** (lb/yr)	Emissions Litter**** (lb/yr)
		(lb-pollutant/lb-PM <sub>10</sub> )	Wt. fraction Litter* (lb-pollutant/lb-PM <sub>10</sub> )		
Aluminum	7429905	1.10E-03	5.00E-04	41.85	19.02
Arsenic	7440382	1.50E-06	4.10E-06	0.06	0.16
Cadmium	7440439	9.40E-07	8.60E-07	0.04	0.03
Chromium	7440473	4.90E-06	6.00E-06	0.19	0.23
Copper	7440508	6.60E-05	5.00E-05	2.51	1.90
Hexavalent Chromium**	18540299	2.45E-07	3.00E-07	0.01	0.01
Lead	7439921	4.60E-06	2.30E-06	0.17	0.09
Manganese	7439965	3.20E-04	2.11E-04	12.17	8.03
Mercury	7439976	4.00E-08	6.00E-08	0.00	0.00
Phosphorus	7723140	2.29E-02	1.81E-02	871.16	688.56
Selenium	7782492	6.80E-07	4.40E-07	0.03	0.02
Zinc	7440666	3.76E-04	1.87E-04	14.30	7.11

**References:**

\* Emissions factors are from the table, "Mineral Composition of Manures" (page iv in Apendix III) in 1990A Review of Poultry Manure Management:Directions for the Future,Agriculture and Agri-Food Canada Poultry Section.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions DPW (lb/yr) = Wt. fraction DPW (lb-pollutant/lb-PM<sub>10</sub>) x 0.0213 lb-PM<sub>10</sub>/bird-yr x 1.786E+06 birds

\*\*\*\*Emissions Litter (lb/yr) = Wt. fraction Litter (lb-pollutant/lb-PM<sub>10</sub>) x 0.0213 lb-PM<sub>10</sub>/bird-yr x 1.786E+06 birds

N-5526-1-4 (HenLayingHouses)  
 LAYING HEN RANCH INCLUDING 1,786,000 LAYERS CONSISTING OF 23 MECHANICALLY VENTILATED LAYER HOUSES  
 INCLUDING ELECTRIC FANS TOTALING 624 HP

Substances	CAS#	EF (Lb/Bird/HR Capacity)*	Emissions**
Ammonia	7664417	1.27E-05	198696
Benzene	71432	1.35E-08	211
Carbon Disulfide	75150	9.87E-08	1543
Dichlorofluoromethane	75434	1.20E-07	1877
Hexane	110543	6.49E-08	1016
Isopropyl Alcohol	67630	1.68E-08	263
Methanol	67561	1.72E-06	26872
Methyl Ethyl Ketone	78933	3.11E-08	487
Methylene Chloride	75092	9.66E-08	1511
Methyl isobutyl Ketone	108101	1.63E-08	255
Propionaldehyde	123386	8.70E-08	1361
Propylene	115071	5.24E-08	819
Toluene	108883	3.85E-08	602
Vinyl Acetate	108054	5.49E-07	8590

**References:**

\* Emissions for the Broiler houses were derived from Source tests conducted by facility C5440 (June 2004 , 1051352) and PM<sub>10</sub> emission factors for poultry emissions.

\*\*Emissions = EF (Lb/Bird/HR Capacity) x 1.786E+06 birds x 8,760 HR/yr

N-5526-2-3

SOLID MANURE HANDLING SYSTEM CONSISTING OF OPEN MANURE STOCK PILES WITH SOLID MANURE APPLICATION TO LAND, OFFSITE HAULING, AND ON-SITE COMPOSTING

HAPs data is not available for this operation at this time.

## 234 BHP CATERPILLAR MODEL 3306D1 (S/N: 85Z11102) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (PEPPER)

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)**
1,3 Butadiene	106990	3.82E-03	0.005
Acetaldehyde	75070	5.23E-03	0.006
Arsenic	7440382	3.06E-03	0.004
Benzene	71432	1.71E-02	0.021
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.001
Carbon Tetrachloride	56235	4.43E-03	0.005
Chlorobenzene	108907	3.81E-03	0.005
Chloroform	67663	3.67E-03	0.005
Chromium	7440473	2.04E-03	0.003
Ethylene Dichloride	107062	2.79E-03	0.003
Formaldehyde	50000	1.38E-01	0.172
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.004
Manganese	7439965	1.08E-01	0.134
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.005
Naphthalene	91203	2.10E-02	0.026
Nickel	7440020	7.12E-03	0.009
p-Dichlorobenzene	106467	4.23E-03	0.005
PAHs	1151	2.15E-02	0.027
Perchloroethylene	127184	4.78E-03	0.006
Selenium	7782492	1.02E-02	0.013
Trichloroethylene	79016	3.79E-03	0.005
Vinyl Chloride	75014	8.99E-03	0.011
Vinylidene Chloride	75354	2.79E-03	0.003

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 1,241 gal/yr; Fuel use = 12.41 gal/hr x 100 hr/yr (permitted non-emergency use) = 1,241 gal/yr

N-5526-6-1

147 BHP DEUTZ MODEL 1013FC (S/N: 00410072) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (CORTEZ)

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)**
1,3 Butadiene	106990	3.82E-03	0.003
Acetaldehyde	75070	5.23E-03	0.004
Arsenic	7440382	3.06E-03	0.002
Benzene	71432	1.71E-02	0.013
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.001
Carbon Tetrachloride	56235	4.43E-03	0.003
Chlorobenzene	108907	3.81E-03	0.003
Chloroform	67663	3.67E-03	0.003
Chromium	7440473	2.04E-03	0.002
Ethylene Dichloride	107062	2.79E-03	0.002
Formaldehyde	50000	1.38E-01	0.108
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.002
Manganese	7439965	1.08E-01	0.084
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.003
Naphthalene	91203	2.10E-02	0.016
Nickel	7440020	7.12E-03	0.006
p-Dichlorobenzene	106467	4.23E-03	0.003
PAHs	1151	2.15E-02	0.017
Perchloroethylene	127184	4.78E-03	0.004
Selenium	7782492	1.02E-02	0.008
Trichloroethylene	79016	3.79E-03	0.003
Vinyl Chloride	75014	8.99E-03	0.007
Vinylidene Chloride	75354	2.79E-03	0.002
Total:			0.300

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 779 gal/yr; Fuel use = 7.79 gal/hr x 100 hr/yr (permitted non-emergency use) = 779 gal/yr

1,839 BHP CATERPILLAR MODEL 3306DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR  
(HALL)

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)**
1,3 Butadiene	106990	3.82E-03	0.037
Acetaldehyde	75070	5.23E-03	0.051
Arsenic	7440382	3.06E-03	0.030
Benzene	71432	1.71E-02	0.167
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.010
Carbon Tetrachloride	56235	4.43E-03	0.043
Chlorobenzene	108907	3.81E-03	0.037
Chloroform	67663	3.67E-03	0.036
Chromium	7440473	2.04E-03	0.020
Ethylene Dichloride	107062	2.79E-03	0.027
Formaldehyde	50000	1.38E-01	1.349
Hexavalent Chromium**	18540299	1.02E-04	0.001
Lead	7439921	3.06E-03	0.030
Manganese	7439965	1.08E-01	1.054
Mercury	7439976	1.64E-04	0.002
Methylene Chloride	75092	3.92E-03	0.038
Naphthalene	91203	2.10E-02	0.204
Nickel	7440020	7.12E-03	0.069
p-Dichlorobenzene	106467	4.23E-03	0.041
PAHs	1151	2.15E-02	0.210
Perchloroethylene	127184	4.78E-03	0.047
Selenium	7782492	1.02E-02	0.099
Trichloroethylene	79016	3.79E-03	0.037
Vinyl Chloride	75014	8.99E-03	0.088
Vinylidene Chloride	75354	2.79E-03	0.027
Total:			3.755

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 9,751 gal/yr; Fuel use = 97.51 gal/hr x 100 hr/yr (permitted non-emergency use) = 9,751 gal/yr

N-5526-9-1

450 BHP GENERAL MOTORS MODEL W-LS-TT (S/N: 500-600) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SHASTA)

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)**
1,3 Butadiene	106990	3.82E-03	0.009
Acetaldehyde	75070	5.23E-03	0.012
Arsenic	7440382	3.06E-03	0.007
Benzene	71432	1.71E-02	0.041
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.002
Carbon Tetrachloride	56235	4.43E-03	0.011
Chlorobenzene	108907	3.81E-03	0.009
Chloroform	67663	3.67E-03	0.009
Chromium	7440473	2.04E-03	0.005
Ethylene Dichloride	107062	2.79E-03	0.007
Formaldehyde	50000	1.38E-01	0.330
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.007
Manganese	7439965	1.08E-01	0.258
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.009
Naphthalene	91203	2.10E-02	0.050
Nickel	7440020	7.12E-03	0.017
p-Dichlorobenzene	106467	4.23E-03	0.010
PAHs	1151	2.15E-02	0.051
Perchloroethylene	127184	4.78E-03	0.011
Selenium	7782492	1.02E-02	0.024
Trichloroethylene	79016	3.79E-03	0.009
Vinyl Chloride	75014	8.99E-03	0.021
Vinylidene Chloride	75354	2.79E-03	0.007
Total:			0.919

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 2,386 gal/yr; Fuel use = 23.86 gal/hr x 100 hr/yr (permitted non-emergency use) = 2,386 gal/yr

450 BHP DETROIT MODEL 12V71 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR  
(SIERRA)

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)***
1,3 Butadiene	106990	3.82E-03	0.009
Acetaldehyde	75070	5.23E-03	0.012
Arsenic	7440382	3.06E-03	0.007
Benzene	71432	1.71E-02	0.041
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.002
Carbon Tetrachloride	56235	4.43E-03	0.011
Chlorobenzene	108907	3.81E-03	0.009
Chloroform	67663	3.67E-03	0.009
Chromium	7440473	2.04E-03	0.005
Ethylene Dichloride	107062	2.79E-03	0.007
Formaldehyde	50000	1.38E-01	0.330
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.007
Manganese	7439965	1.08E-01	0.258
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.009
Naphthalene	91203	2.10E-02	0.050
Nickel	7440020	7.12E-03	0.017
p-Dichlorobenzene	106467	4.23E-03	0.010
PAHs	1151	2.15E-02	0.051
Perchloroethylene	127184	4.78E-03	0.011
Selenium	7782492	1.02E-02	0.024
Trichloroethylene	79016	3.79E-03	0.009
Vinyl Chloride	75014	8.99E-03	0.021
Vinylidene Chloride	75354	2.79E-03	0.007
Total:			0.919

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 2,386 gal/yr; Fuel use = 23.86 gal/hr x 100 hr/yr (permitted non-emergency use) = 2,386 gal/yr

450 BHP DAEWOO MODEL P180LE(G) (S/N: 401438EASOC) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (VEGAS)

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)**
1,3 Butadiene	106990	3.82E-03	0.009
Acetaldehyde	75070	5.23E-03	0.012
Arsenic	7440382	3.06E-03	0.007
Benzene	71432	1.71E-02	0.041
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.002
Carbon Tetrachloride	56235	4.43E-03	0.011
Chlorobenzene	108907	3.81E-03	0.009
Chloroform	67663	3.67E-03	0.009
Chromium	7440473	2.04E-03	0.005
Ethylene Dichloride	107062	2.79E-03	0.007
Formaldehyde	50000	1.38E-01	0.330
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.007
Manganese	7439965	1.08E-01	0.258
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.009
Naphthalene	91203	2.10E-02	0.050
Nickel	7440020	7.12E-03	0.017
p-Dichlorobenzene	106467	4.23E-03	0.010
PAHs	1151	2.15E-02	0.051
Perchloroethylene	127184	4.78E-03	0.011
Selenium	7782492	1.02E-02	0.024
Trichloroethylene	79016	3.79E-03	0.009
Vinyl Chloride	75014	8.99E-03	0.021
Vinylidene Chloride	75354	2.79E-03	0.007
Total:			0.919

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 2,386 gal/yr; Fuel use = 23.86 gal/hr x 100 hr/yr (permitted non-emergency use) = 2,386 gal/yr

N-5526-13-1

300 BHP GENERAL MOTORS MODEL 500-600 (S/N: 514769) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (YOSEMITE)

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)**
1,3 Butadiene	106990	3.82E-03	0.006
Acetaldehyde	75070	5.23E-03	0.008
Arsenic	7440382	3.06E-03	0.005
Benzene	71432	1.71E-02	0.027
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.002
Carbon Tetrachloride	56235	4.43E-03	0.007
Chlorobenzene	108907	3.81E-03	0.006
Chloroform	67663	3.67E-03	0.006
Chromium	7440473	2.04E-03	0.003
Ethylene Dichloride	107062	2.79E-03	0.004
Formaldehyde	50000	1.38E-01	0.220
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.005
Manganese	7439965	1.08E-01	0.172
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.006
Naphthalene	91203	2.10E-02	0.033
Nickel	7440020	7.12E-03	0.011
p-Dichlorobenzene	106467	4.23E-03	0.007
PAHs	1151	2.15E-02	0.034
Perchloroethylene	127184	4.78E-03	0.008
Selenium	7782492	1.02E-02	0.016
Trichloroethylene	79016	3.79E-03	0.006
Vinyl Chloride	75014	8.99E-03	0.014
Vinylidene Chloride	75354	2.79E-03	0.004
Total:			0.613

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 1,591 gal/yr; Fuel use = 15.91 gal/hr x 100 hr/yr (permitted non-emergency use) = 1,591 gal/yr

N-5526-14-1

AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1,000 GALLON ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-142-B), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

Substances	CAS#	EF (lb-HAP/100 lb-Total	
		VOC)*	Emissions (lb/yr)**
Benzene	71432	4.00E-01	1.124
Ethyl benzene		1.40E+00	3.934
Hexane		1.40E+00	3.934
PAHs		5.00E-01	1.405
Toluene		1.10E+00	3.091
Xylene		4.00E-01	1.124
2,2,4-Trimethylpentane		7.00E-01	1.967
		Total:	16.579

**References:**

\*Emission factors are taken from Table 4 (Reformulated with Ethanol) of a paper titled "Developing a Consistent Methodology to Calculate VOC and HAP Evaporative Emissions for Stage I and Stage II Operations at Gasoline Service Stations for the 1999 National Emission Inventory" (Draft Version 2.0)

\*\*Emissions = EF (lb-HAP/100 lb-VOC) x 281 (lb-VOC/yr); PE of 281 lb-VOC/yr are taken from the application review under project N-1041699

490 BHP DETROIT DIESEL MODEL 606MK35 SPECB34450 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions (lb/yr)**
1,3 Butadiene	106990	3.82E-03	0.010
Acetaldehyde	75070	5.23E-03	0.014
Arsenic	7440382	3.06E-03	0.008
Benzene	71432	1.71E-02	0.044
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.003
Carbon Tetrachloride	56235	4.43E-03	0.011
Chlorobenzene	108907	3.81E-03	0.010
Chloroform	67663	3.67E-03	0.010
Chromium	7440473	2.04E-03	0.005
Ethylene Dichloride	107062	2.79E-03	0.007
Formaldehyde	50000	1.38E-01	0.359
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.008
Manganese	7439965	1.08E-01	0.281
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.010
Naphthalene	91203	2.10E-02	0.054
Nickel	7440020	7.12E-03	0.019
p-Dichlorobenzene	106467	4.23E-03	0.011
PAHs	1151	2.15E-02	0.056
Perchloroethylene	127184	4.78E-03	0.012
Selenium	7782492	1.02E-02	0.026
Trichloroethylene	79016	3.79E-03	0.010
Vinyl Chloride	75014	8.99E-03	0.023
Vinylidene Chloride	75354	2.79E-03	0.007
Total:			1.000

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 2,598 gal/yr; Fuel use = 25.98 gal/hr x 100 hr/yr (permitted non-emergency use) = 2,598 gal/yr

## N-5526-20-1\_FuelCombustion

## 0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

Substances	CAS#	EF (lbs/1000 gal)	Emissions**
1,3 Butadiene	106990	1.48E-02	0.46
Acetaldehyde	75070	3.51E-01	10.98
Acrolein	107028	3.51E-01	10.98
Arsenic	7440382	1.60E-03	0.05
Benzene	71432	4.40E-03	0.14
Cadmium	7440439	1.50E-03	0.05
Chlorobenzene	108907	2.00E-04	0.01
Copper	7440508	4.10E-03	0.13
Total Chromium	7440473	6.00E-04	0.02
Ethyl Benzene	100414	2.00E-04	0.01
Formaldehyde	50000	3.51E-01	10.98
Hexane	110543	3.50E-03	0.11
Hexavalent Chromium**	18540299	1.00E-04	0.00
Hydrogen Chloride	7647010	1.86E-01	5.84
Lead	7439921	8.30E-03	0.26
Manganese	7439965	3.10E-03	0.10
Mercury	7439976	2.00E-03	0.06
Naphthalene	91203	5.30E-03	0.17
Nickel	7440020	3.90E-03	0.12
PAHs	1150	4.45E-02	1.39
Propylene	115071	1.00E-02	0.31
Selenium	7782492	2.20E-03	0.07
Toluene	108883	4.40E-03	0.14
Xylene	1330207	1.60E-03	0.05
Zinc	7440666	2.24E-02	0.70
Total:			43.14

**References:**

\* The emission factors are from the table "Diesel Combustion Factors" (pg. 3, external combustion column) in the May 2001 update of VCAPCD AB 2588 Combustion Emission Factors. PAHs emission factor adjusted from table values to subtract Naphthalene portion.

\*\*Emissions = EF (lb/1,000 gal) x 0.49 MMBtu/hr x gal/0.137 MMBtu x 8,760 hr/yr

Substance	CAS#	EF (lb/ lb Poultry Incinerated)*	Emissions**
1,3 Butadiene	106990	1.99E-07	0.04
Acenaphthene	83329	1.16E-08	0.00
Acenaphthylene	208968	1.00E-07	0.02
Anthracene	120127	3.43E-08	0.01
Arsenic	7440382	5.98E-08	0.01
Barium	7440393	2.89E-09	0.00
Benzene	71432	1.84E-05	4.04
Benzo(a)Anthracene	56553	2.15E-09	0.00
Benzo(a)Pyrene	50328	5.40E-10	0.00
Benzo(b)Fluoranthene	205992	1.16E-09	0.00
Benzo(e)Pyrene	192972	8.03E-10	0.00
Benzo(g,h,i)Perylene	191242	9.01E-10	0.00
Benzo(k)Fluoranthene	207089	1.80E-10	0.00
Cadmium	7440439	2.59E-08	0.01
Chlorobenzene	108907	1.27E-08	0.00
Chromium	7440473	1.16E-07	0.03
Chrysene	218019	3.74E-09	0.00
Copper	7440508	5.30E-07	0.12
Dioxin 4D	1746016	5.63E-12	0.00
Dioxin 5D 12378	40321764	4.58E-12	0.00
Dioxin 6D 123478	39227286	4.03E-12	0.00
Dioxin 6D 123678	57653857	4.40E-12	0.00
Dioxin 6D 123789	19408743	5.03E-12	0.00
Dioxin 7D	35822469	1.42E-11	0.00
Dioxin 8D	3268879	8.62E-11	0.00
Ethyl Chloride (Chloroethane)	75003	7.78E-09	0.00
Ethyl benzene	100414	1.96E-07	0.04
Fluoranthene	206440	2.46E-08	0.01
Fluorene	86737	7.68E-08	0.02
Furan 4F	51207319	4.22E-11	0.00
Furan 5F 12378	57117416	9.74E-12	0.00
Furan 5F 23478	57117314	1.38E-11	0.00
Furan 6F 123478	70648269	1.37E-11	0.00
Furan 6F 123678	57117449	6.92E-12	0.00
Furan 6F 123789	72918219	5.91E-12	0.00
Furan 6F 234678	60851345	9.03E-13	0.00
Furan 7F 1234678	67562394	2.64E-11	0.00
Furan 7F 1234789	55673897	1.52E-12	0.00
Furan 8F	39001020	9.54E-12	0.00
Hexachlorobenzene	118741	2.31E-10	0.00
Hexavalent Chromium**	18540299	5.78E-09	0.00
Hydrochloric acid	7647010	6.44E-04	140.98
Hydrogen Fluoride	7664393	1.94E-05	4.25
Indeno(1,2,3-cd)Pyrene	193395	6.31E-10	0.00
Lead	7439921	2.19E-06	0.48
Manganese	7439965	8.88E-08	0.02
Mercury	7439976	9.30E-10	0.00
Methyl Chloride (Chloromethane)	74873	1.57E-07	0.03
Methylene Chloride	75092	2.88E-08	0.01
Naphthalene	91203	2.04E-06	0.45
Nickel	7440020	7.20E-08	0.02
PCB 77 3,3',4,4'-tetra	32598133	1.05E-11	0.00
PCB 81 3,4,4',5-tetra	70362504	1.22E-12	0.00
PCB 105 2,3,3',4,4'-penta	32598144	6.95E-12	0.00
PCB 114 2,3,4,4',5-penta	74472370	8.72E-13	0.00
PCB 118 2,3',4,4',5-penta	31508006	9.66E-12	0.00
PCB 123 2',3,4,4',5-penta	65510443	4.82E-12	0.00
PCB 126 3,3',4,4'5-penta	57465288	4.86E-12	0.00
PCB 156 2,3,3',4,4',5-hexa	38380084	5.24E-12	0.00
PCB 157 2,3,3',4,4',5'-hexa	69782907	1.75E-12	0.00
PCB 167 2,3',4,4',5,5'-hexa	52663726	2.43E-12	0.00
PCB 169 3,3',4,4',5,5'-hexa	32774166	1.17E-12	0.00
PCB 189 2,3,3',4,4',5,5'-hepta	39635319	1.88E-12	0.00
Pentachlorophenol	87865	3.58E-10	0.00
Perylene	198550	9.01E-11	0.00
Phenanthrene	85018	6.52E-07	0.14
Pyrene	129000	3.56E-08	0.01
Selenium	7782492	1.25E-07	0.03
Silver	7440224	4.03E-09	0.00
Toluene	108883	2.74E-06	0.60
Vinyl Chloride	75014	1.48E-07	0.03
Xylene	1330207	4.54E-07	0.10
Zinc	7440666	1.66E-05	3.65

**References:**

\* Emission factors are derived from the 2006 Canadian Environmental Technology Centre report, *Characterization of Emissions from an Animal Crematorium Shenandoah A850*.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = EF (lb/ lb Poultry Incinerated) x 600 lb/day x 365 days/yr

## N-5526-21-1\_FuelCombustion

## 0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

Substances	CAS#	EF (lbs/1000 gal)	Emissions**
1,3 Butadiene	106990	1.48E-02	0.46
Acetaldehyde	75070	3.51E-01	10.98
Acrolein	107028	3.51E-01	10.98
Arsenic	7440382	1.60E-03	0.05
Benzene	71432	4.40E-03	0.14
Cadmium	7440439	1.50E-03	0.05
Chlorobenzene	108907	2.00E-04	0.01
Copper	7440508	4.10E-03	0.13
Total Chromium	7440473	6.00E-04	0.02
Ethyl Benzene	100414	2.00E-04	0.01
Formaldehyde	50000	3.51E-01	10.98
Hexane	110543	3.50E-03	0.11
Hexavalent Chromium**	18540299	1.00E-04	0.00
Hydrogen Chloride	7647010	1.86E-01	5.84
Lead	7439921	8.30E-03	0.26
Manganese	7439965	3.10E-03	0.10
Mercury	7439976	2.00E-03	0.06
Naphthalene	91203	5.30E-03	0.17
Nickel	7440020	3.90E-03	0.12
PAHs	1150	4.45E-02	1.39
Propylene	115071	1.00E-02	0.31
Selenium	7782492	2.20E-03	0.07
Toluene	108883	4.40E-03	0.14
Xylene	1330207	1.60E-03	0.05
Zinc	7440666	2.24E-02	0.70
Total:			43.14

**References:**

\* The emission factors are from the table "Diesel Combustion Factors" (pg. 3, external combustion column) in the May 2001 update of VCAPCD AB 2588 Combustion Emission Factors. PAHs emission factor adjusted from table values to subtract Naphthalene portion.

\*\*Emissions = EF (lb/1,000 gal) x 0.49 MMBtu/hr x gal/0.137 MMBtu x 8,760 hr/yr

Substance	CAS#	EF (lb/ lb Poultry Incinerated)*	Emissions**
1,3 Butadiene	106990	1.99E-07	0.04
Acenaphthene	83329	1.16E-08	0.00
Acenaphthylene	208968	1.00E-07	0.02
Anthracene	120127	3.43E-08	0.01
Arsenic	7440382	5.98E-08	0.01
Barium	7440393	2.89E-09	0.00
Benzene	71432	1.84E-05	4.04
Benzo(a)Anthracene	56553	2.15E-09	0.00
Benzo(a)Pyrene	50328	5.40E-10	0.00
Benzo(b)Fluoranthene	205992	1.16E-09	0.00
Benzo(e)Pyrene	192972	8.03E-10	0.00
Benzo(g,h,i)Perylene	191242	9.01E-10	0.00
Benzo(k)Fluoranthene	207089	1.80E-10	0.00
Cadmium	7440439	2.59E-08	0.01
Chlorobenzene	108907	1.27E-08	0.00
Chromium	7440473	1.16E-07	0.03
Chrysene	218019	3.74E-09	0.00
Copper	7440508	5.30E-07	0.12
Dioxin 4D	1746016	5.63E-12	0.00
Dioxin 5D 12378	40321764	4.58E-12	0.00
Dioxin 6D 123478	39227286	4.03E-12	0.00
Dioxin 6D 123678	57653857	4.40E-12	0.00
Dioxin 6D 123789	19408743	5.03E-12	0.00
Dioxin 7D	35822469	1.42E-11	0.00
Dioxin 8D	3268879	8.62E-11	0.00
Ethyl Chloride (Chloroethane)	75003	7.78E-09	0.00
Ethyl benzene	100414	1.96E-07	0.04
Fluoranthene	206440	2.46E-08	0.01
Fluorene	86737	7.68E-08	0.02
Furan 4F	51207319	4.22E-11	0.00
Furan 5F 12378	57117416	9.74E-12	0.00
Furan 5F 23478	57117314	1.38E-11	0.00
Furan 6F 123478	70648269	1.37E-11	0.00
Furan 6F 123678	57117449	6.92E-12	0.00
Furan 6F 123789	72918219	5.91E-12	0.00
Furan 6F 234678	60851345	9.03E-13	0.00
Furan 7F 1234678	67562394	2.64E-11	0.00
Furan 7F 1234789	55673897	1.52E-12	0.00
Furan 8F	39001020	9.54E-12	0.00
Hexachlorobenzene	118741	2.31E-10	0.00
Hexavalent Chromium**	18540299	5.78E-09	0.00
Hydrochloric acid	7647010	6.44E-04	140.98
Hydrogen Fluoride	7664393	1.94E-05	4.25
Indeno(1,2,3-cd)Pyrene	193395	6.31E-10	0.00
Lead	7439921	2.19E-06	0.48
Manganese	7439965	8.88E-08	0.02
Mercury	7439976	9.30E-10	0.00
Methyl Chloride (Chloromethane)	74873	1.57E-07	0.03
Methylene Chloride	75092	2.88E-08	0.01
Naphthalene	91203	2.04E-06	0.45
Nickel	7440020	7.20E-08	0.02
PCB 77 3,3',4,4'-tetra	32598133	1.05E-11	0.00
PCB 81 3,4,4',5-tetra	70362504	1.22E-12	0.00
PCB 105 2,3,3',4,4'-penta	32598144	6.95E-12	0.00
PCB 114 2,3,4,4',5-penta	74472370	8.72E-13	0.00
PCB 118 2,3',4,4',5-penta	31508006	9.66E-12	0.00
PCB 123 2',3,4,4',5-penta	65510443	4.82E-12	0.00
PCB 126 3,3',4,4'5-penta	57465288	4.86E-12	0.00
PCB 156 2,3,3',4,4',5-hexa	38380084	5.24E-12	0.00
PCB 157 2,3,3',4,4',5'-hexa	69782907	1.75E-12	0.00
PCB 167 2,3',4,4',5,5'-hexa	52663726	2.43E-12	0.00
PCB 169 3,3',4,4',5,5'-hexa	32774166	1.17E-12	0.00
PCB 189 2,3,3',4,4',5,5'-hepta	39635319	1.88E-12	0.00
Pentachlorophenol	87865	3.58E-10	0.00
Perylene	198550	9.01E-11	0.00
Phenanthrene	85018	6.52E-07	0.14
Pyrene	129000	3.56E-08	0.01
Selenium	7782492	1.25E-07	0.03
Silver	7440224	4.03E-09	0.00
Toluene	108883	2.74E-06	0.60
Vinyl Chloride	75014	1.48E-07	0.03
Xylene	1330207	4.54E-07	0.10
Zinc	7440666	1.66E-05	3.65

**References:**

\* Emission factors are derived from the 2006 Canadian Environmental Technology Centre report, *Characterization of Emissions from an Animal Crematorium Shenandoah A850*.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = EF (lb/ lb Poultry Incinerated) x 600 lb/day x 365 days/yr

## 871 BHP DAEWOO MODEL P222LE TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (FORMERLY N-5526-5-0)

Substances	CAS#	EF(lbs/ 1,000 gallons)*	Emissions***
1,3 Butadiene	106990	3.82E-03	0.009
Acetaldehyde	75070	5.23E-03	0.012
Arsenic	7440382	3.06E-03	0.007
Benzene	71432	1.71E-02	0.040
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.002
Carbon Tetrachloride	56235	4.43E-03	0.010
Chlorobenzene	108907	3.81E-03	0.009
Chloroform	67663	3.67E-03	0.008
Chromium	7440473	2.04E-03	0.005
Ethylene Dichloride	107062	2.79E-03	0.006
Formaldehyde	50000	1.38E-01	0.319
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.007
Manganese	7439965	1.08E-01	0.250
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.009
Naphthalene	91203	2.10E-02	0.048
Nickel	7440020	7.12E-03	0.016
p-Dichlorobenzene	106467	4.23E-03	0.010
PAHs	1151	2.15E-02	0.050
Perchloroethylene	127184	4.78E-03	0.011
Selenium	7782492	1.02E-02	0.023
Trichloroethylene	79016	3.79E-03	0.009
Vinyl Chloride	75014	8.99E-03	0.021
Vinylidene Chloride	75354	2.79E-03	0.006
Total:			0.889

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 2,309 gal/yr; Fuel use = 46.18 gal/hr x 50 hr/yr (permitted non-emergency use) = 2,309 gal/yr

N-5526-23-1 (PM10)  
 ORGANIC WASTE MATERIAL RECEIVING, STORAGE, AND MIXING OPERATION

Substances	CAS#	Weight Fraction in	
		Compost*	Emissions (lb/yr)**
		lb/lb PM <sub>10</sub>	
Aluminum	7429905	1.10E-02	0.3
Arsenic	7440382	3.80E-06	0.0
Cadmium	7440439	1.30E-06	0.0
Chromium	7440473	5.00E-05	0.0
Cobalt	7440484	5.40E-06	0.0
Copper	7440508	1.80E-04	0.0
Hexavalent (	18540299	2.50E-06	0.0
Lead	7439921	3.10E-05	0.0
Manganese	7439965	6.90E-04	0.0
Mercury	7439976	2.10E-06	0.0
Nickel	7440020	3.00E-05	0.0
Selenium	7782492	2.70E-06	0.0
Phosphorus	7723140	2.00E-02	0.6
Zinc	7440666	4.80E-04	0.0

**References:**

\*Emission Factors are derived from compost analysis in Appendix C of the 2011 report, Biosolids Co-Composting VOC and Ozone Formation Study. The Maximum values were used from the data.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = Weight Fraction in Compost\* lb/lb PM<sub>10</sub> x 31 lb-PM<sub>10</sub>/yr;  
 Potential emissions of 31 lb-PM<sub>10</sub>/yr are taken from app review under project N-1080067

N-5526-23-1 (VOC & NH3)  
 ORGANIC WASTE MATERIAL RECEIVING, STORAGE, AND MIXING OPERATION

Substances	CAS#	Weight Fraction in	
		Compost*	Emissions
		lb/lb VOC	(lb/yr)**
Acetaldehyde	7429905	1.40E-03	143.0
Isopropyl Alcohol	7440382	4.23E-01	43229.0
Methanol	7440439	1.28E-01	13067.8
Naphthalene	7440473	5.00E-03	510.9
Propylene	7440484	2.20E-03	224.8
Sec-butyl alcohol	7440508	3.90E-03	398.5
Ammonia		--	1144.0

**References:**

\*Emission factors are derived from the VOC profile 1616, "Green Waste Composting" from *EPA Speciate 4.4*, test data from the 2011 article *Volatile organic compound emissions from green waste composting: Characterization and ozone formation* in the journal, *Atmospheric Environment*, (45, 2011, 1841-1848).

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = Weight Fraction in Compost\* lb/lb VOC x 102,172 lb-VOC/yr; Potential emissions of 102,172 lb-VOC/yr are taken from app review under project N-1080067

\*\*\*ammonia emissions are taken from app review under project N-1080067

N-5526-24-1 (PM10)  
 OPEN WINDROW ACTIVE AND CURING PHASE CO-COMPOSTING OPERATION

Substances	CAS#	Weight Fraction in	
		Compost*	Emissions (lb/yr)**
		lb/lb PM <sub>10</sub>	
Aluminum	7429905	1.10E-02	0.1
Arsenic	7440382	3.80E-06	0.0
Cadmium	7440439	1.30E-06	0.0
Chromium	7440473	5.00E-05	0.0
Cobalt	7440484	5.40E-06	0.0
Copper	7440508	1.80E-04	0.0
Hexavalent (	18540299	2.50E-06	0.0
Lead	7439921	3.10E-05	0.0
Manganese	7439965	6.90E-04	0.0
Mercury	7439976	2.10E-06	0.0
Nickel	7440020	3.00E-05	0.0
Selenium	7782492	2.70E-06	0.0
Phosphorus	7723140	2.00E-02	0.3
Zinc	7440666	4.80E-04	0.0

**References:**

\*Emission Factors are derived from compost analysis in Appendix C of the 2011 report, Biosolids Co-Composting VOC and Ozone Formation Study. The Maximum values were used from the data.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = Weight Fraction in Compost\* lb/lb PM10 x 13 lb-PM10/yr;  
 Potential emissions of 31 lb-PM10/yr are taken from app review under project N-1080067

N-5526-24-1 (VOC & NH3)  
 OPEN WINDROW ACTIVE AND CURING PHASE CO-COMPOSTING OPERATION

Substances	CAS#	Weight Fraction in Compost* lb/lb VOC	Emissions (lb/yr)**
Acetaldehyde	7429905	1.40E-03	47.5
Isopropyl Alcohol	7440382	4.23E-01	14355.8
Methanol	7440439	1.28E-01	4339.6
Naphthalene	7440473	5.00E-03	169.7
Propylene	7440484	2.20E-03	74.6
Sec-butyl alcohol	7440508	3.90E-03	132.3
Ammonia		--	55852.0

**References:**

\*Emission factors are derived from the VOC profile 1616, "Green Waste Composting" from *EPA Speciate 4.4*, test data from the 2011 article *Volatile organic compound emissions from green waste composting: Characterization and ozone formation* in the journal, *Atmospheric Environment*, (45, 2011, 1841-1848).

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = Weight Fraction in Compost\* lb/lb VOC x 33,930 lb-VOC/yr; Potential emissions of 33,930 lb-VOC/yr are taken from app review under project N-1080067

\*\*\*ammonia emissions are taken from app review under project N-1080067

N-5526-25-1 (PM10)  
FINISHED COMPOST STORAGE AND LOADOUT OPERATION

Substances	CAS#	Weight Fraction in	
		Compost*	Emissions (lb/yr)**
		lb/lb PM <sub>10</sub>	
Aluminum	7429905	1.10E-02	0.1
Arsenic	7440382	3.80E-06	0.0
Cadmium	7440439	1.30E-06	0.0
Chromium	7440473	5.00E-05	0.0
Cobalt	7440484	5.40E-06	0.0
Copper	7440508	1.80E-04	0.0
Hexavalent (	18540299	2.50E-06	0.0
Lead	7439921	3.10E-05	0.0
Manganese	7439965	6.90E-04	0.0
Mercury	7439976	2.10E-06	0.0
Nickel	7440020	3.00E-05	0.0
Selenium	7782492	2.70E-06	0.0
Phosphorus	7723140	2.00E-02	0.1
Zinc	7440666	4.80E-04	0.0

**References:**

\*Emission Factors are derived from compost analysis in Appendix C of the 2011 report, Biosolids Co-Composting VOC and Ozone Formation Study. The Maximum values were used from the data.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = Weight Fraction in Compost\* lb/lb PM10 x 6 lb-PM10/yr;  
Potential emissions of 6 lb-PM10/yr are taken from app review under project N-1080067

157 BHP PERKINS MODEL 1104D-E44TAG2 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN  
ELECTRIC GENERATOR

Substances	CAS#	EF (lbs/ 1,000 gallons)*	Emissions***
1,3 Butadiene	106990	3.82E-03	0.002
Acetaldehyde	75070	5.23E-03	0.002
Arsenic	7440382	3.06E-03	0.001
Benzene	71432	1.71E-02	0.007
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.000
Carbon Tetrachloride	56235	4.43E-03	0.002
Chlorobenzene	108907	3.81E-03	0.002
Chloroform	67663	3.67E-03	0.002
Chromium	7440473	2.04E-03	0.001
Ethylene Dichloride	107062	2.79E-03	0.001
Formaldehyde	50000	1.38E-01	0.058
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.001
Manganese	7439965	1.08E-01	0.045
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.002
Naphthalene	91203	2.10E-02	0.009
Nickel	7440020	7.12E-03	0.003
p-Dichlorobenzene	106467	4.23E-03	0.002
PAHs	1151	2.15E-02	0.009
Perchloroethylene	127184	4.78E-03	0.002
Selenium	7782492	1.02E-02	0.004
Trichloroethylene	79016	3.79E-03	0.002
Vinyl Chloride	75014	8.99E-03	0.004
Vinylidene Chloride	75354	2.79E-03	0.001
Total:			0.160

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 416 gal/yr; Fuel use = 8.32 gal/hr x 50 hr/yr (permitted non-emergency use) = 416 gal/yr

N-5526-27-0\_FuelCombustion  
 SHENANDOAH A-850 POULTRY INCINERATOR #1 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR  
 DIESEL-FIRED AFTERBURNER

Substances	CAS#	EF (lbs/1000 gal)	Emissions**
1,3 Butadiene	106990	1.48E-02	0.17
Acetaldehyde	75070	3.51E-01	4.12
Acrolein	107028	3.51E-01	4.12
Arsenic	7440382	1.60E-03	0.02
Benzene	71432	4.40E-03	0.05
Cadmium	7440439	1.50E-03	0.02
Chlorobenzene	108907	2.00E-04	0.00
Copper	7440508	4.10E-03	0.05
Total Chromium	7440473	6.00E-04	0.01
Ethyl Benzene	100414	2.00E-04	0.00
Formaldehyde	50000	3.51E-01	4.12
Hexane	110543	3.50E-03	0.04
Hexavalent Chromium**	18540299	1.00E-04	0.00
Hydrogen Chloride	7647010	1.86E-01	2.19
Lead	7439921	8.30E-03	0.10
Manganese	7439965	3.10E-03	0.04
Mercury	7439976	2.00E-03	0.02
Naphthalene	91203	5.30E-03	0.06
Nickel	7440020	3.90E-03	0.05
PAHs	1150	4.45E-02	0.52
Propylene	115071	1.00E-02	0.12
Selenium	7782492	2.20E-03	0.03
Toluene	108883	4.40E-03	0.05
Xylene	1330207	1.60E-03	0.02
Zinc	7440666	2.24E-02	0.26
Total:			16.18

**References:**

\* The emission factors are from the table "Diesel Combustion Factors" (pg. 3, external combustion column) in the May 2001 update of VCAPCD AB 2588 Combustion Emission Factors. PAHs emission factor adjusted from table values to subtract Naphthalene portion.

\*\*Emissions = EF (lb/1,000 gal) x 0.49 MMBtu/hr x gal/0.137 MMBtu x 9 hr/day x 365 days/yr

N-5526-27-0\_PoultryIncineration  
 SHENANDOAH A-850 POULTRY INCINERATOR #1 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR  
 DIESEL-FIRED AFTERBURNER

Substance	CAS#	EF (lb/ lb Poultry Incinerated)*	Emissions**
1,3 Butadiene	106990	1.99E-07	0.06
Acenaphthene	83329	1.16E-08	0.00
Acenaphthylene	208968	1.00E-07	0.03
Anthracene	120127	3.43E-08	0.01
Arsenic	7440382	5.98E-08	0.02
Barium	7440393	2.89E-09	0.00
Benzene	71432	1.84E-05	5.72
Benzo(a)Anthracene	56553	2.15E-09	0.00
Benzo(a)Pyrene	50328	5.40E-10	0.00
Benzo(b)Fluoranthene	205992	1.16E-09	0.00
Benzo(e)Pyrene	192972	8.03E-10	0.00
Benzo(g,h,i)Perylene	191242	9.01E-10	0.00
Benzo(k)Fluoranthene	207089	1.80E-10	0.00
Cadmium	7440439	2.59E-08	0.01
Chlorobenzene	108907	1.27E-08	0.00
Chromium	7440473	1.16E-07	0.04
Chrysene	218019	3.74E-09	0.00
Copper	7440508	5.30E-07	0.16
Dioxin 4D	1746016	5.63E-12	0.00
Dioxin 5D 12378	40321764	4.58E-12	0.00
Dioxin 6D 123478	39227286	4.03E-12	0.00
Dioxin 6D 123678	57653857	4.40E-12	0.00
Dioxin 6D 123789	19408743	5.03E-12	0.00
Dioxin 7D	35822469	1.42E-11	0.00
Dioxin 8D	3268879	8.62E-11	0.00
Ethyl Chloride (Chloroethane)	75003	7.78E-09	0.00
Ethyl benzene	100414	1.96E-07	0.06
Fluoranthene	206440	2.46E-08	0.01
Fluorene	86737	7.68E-08	0.02
Furan 4F	51207319	4.22E-11	0.00
Furan 5F 12378	57117416	9.74E-12	0.00
Furan 5F 23478	57117314	1.38E-11	0.00
Furan 6F 123478	70648269	1.37E-11	0.00
Furan 6F 123678	57117449	6.92E-12	0.00
Furan 6F 123789	72918219	5.91E-12	0.00
Furan 6F 234678	60851345	9.03E-13	0.00
Furan 7F 1234678	67562394	2.64E-11	0.00
Furan 7F 1234789	55673897	1.52E-12	0.00
Furan 8F	39001020	9.54E-12	0.00
Hexachlorobenzene	118741	2.31E-10	0.00
Hexavalent Chromium**	18540299	5.78E-09	0.00
Hydrochloric acid	7647010	6.44E-04	199.72
Hydrogen Fluoride	7664393	1.94E-05	6.03
Indeno(1,2,3-cd)Pyrene	193395	6.31E-10	0.00
Lead	7439921	2.19E-06	0.68
Manganese	7439965	8.88E-08	0.03
Mercury	7439976	9.30E-10	0.00
Methyl Chloride (Chloromethane)	74873	1.57E-07	0.05
Methylene Chloride	75092	2.88E-08	0.01
Naphthalene	91203	2.04E-06	0.63
Nickel	7440020	7.20E-08	0.02
PCB 77 3,3',4,4'-tetra	32598133	1.05E-11	0.00
PCB 81 3,4,4',5-tetra	70362504	1.22E-12	0.00
PCB 105 2,3,3',4,4'-penta	32598144	6.95E-12	0.00
PCB 114 2,3,4,4',5-penta	74472370	8.72E-13	0.00
PCB 118 2,3',4,4',5-penta	31508006	9.66E-12	0.00
PCB 123 2',3,4,4',5-penta	65510443	4.82E-12	0.00
PCB 126 3,3',4,4'5-penta	57465288	4.86E-12	0.00
PCB 156 2,3,3',4,4',5-hexa	38380084	5.24E-12	0.00
PCB 157 2,3,3',4,4',5'-hexa	69782907	1.75E-12	0.00
PCB 167 2,3',4,4',5,5'-hexa	52663726	2.43E-12	0.00
PCB 169 3,3',4,4',5,5'-hexa	32774166	1.17E-12	0.00
PCB 189 2,3,3',4,4',5,5'-hepta	39635319	1.88E-12	0.00
Pentachlorophenol	87865	3.58E-10	0.00
Perylene	198550	9.01E-11	0.00
Phenanthrene	85018	6.52E-07	0.20
Pyrene	129000	3.56E-08	0.01
Selenium	7782492	1.25E-07	0.04
Silver	7440224	4.03E-09	0.00
Toluene	108883	2.74E-06	0.85
Vinyl Chloride	75014	1.48E-07	0.05
Xylene	1330207	4.54E-07	0.14
Zinc	7440666	1.66E-05	5.16

**References:**

\* Emission factors are derived from the 2006 Canadian Environmental Technology Centre report, *Characterization of Emissions from an Animal Crematorium Shenandoah A850*.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = EF (lb/ lb Poultry Incinerated) x 850 lb/day x 365 days/yr

N-5526-28-0\_FuelCombustion  
 SHENANDOAH A-850 POULTRY INCINERATOR #2 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR  
 DIESEL-FIRED AFTERBURNER

Substances	CAS#	EF (lbs/1000 gal)	Emissions**
1,3 Butadiene	106990	1.48E-02	0.17
Acetaldehyde	75070	3.51E-01	4.12
Acrolein	107028	3.51E-01	4.12
Arsenic	7440382	1.60E-03	0.02
Benzene	71432	4.40E-03	0.05
Cadmium	7440439	1.50E-03	0.02
Chlorobenzene	108907	2.00E-04	0.00
Copper	7440508	4.10E-03	0.05
Total Chromium	7440473	6.00E-04	0.01
Ethyl Benzene	100414	2.00E-04	0.00
Formaldehyde	50000	3.51E-01	4.12
Hexane	110543	3.50E-03	0.04
Hexavalent Chromium**	18540299	1.00E-04	0.00
Hydrogen Chloride	7647010	1.86E-01	2.19
Lead	7439921	8.30E-03	0.10
Manganese	7439965	3.10E-03	0.04
Mercury	7439976	2.00E-03	0.02
Naphthalene	91203	5.30E-03	0.06
Nickel	7440020	3.90E-03	0.05
PAHs	1150	4.45E-02	0.52
Propylene	115071	1.00E-02	0.12
Selenium	7782492	2.20E-03	0.03
Toluene	108883	4.40E-03	0.05
Xylene	1330207	1.60E-03	0.02
Zinc	7440666	2.24E-02	0.26
Total:			16.18

**References:**

\* The emission factors are from the table "Diesel Combustion Factors" (pg. 3, external combustion column) in the May 2001 update of VCAPCD AB 2588 Combustion Emission Factors. PAHs emission factor adjusted from table values to subtract Naphthalene portion.

\*\*Emissions = EF (lb/1,000 gal) x 0.49 MMBtu/hr x gal/0.137 MMBtu x 9 hr/day x 365 days/yr

## SHENANDOAH A-850 POULTRY INCINERATOR #2 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER

Substance	CAS#	EF (lb/ lb Poultry Incinerated)*	Emissions**
1,3 Butadiene	106990	1.99E-07	0.06
Acenaphthene	83329	1.16E-08	0.00
Acenaphthylene	208968	1.00E-07	0.03
Anthracene	120127	3.43E-08	0.01
Arsenic	7440382	5.98E-08	0.02
Barium	7440393	2.89E-09	0.00
Benzene	71432	1.84E-05	5.72
Benzo(a)Anthracene	56553	2.15E-09	0.00
Benzo(a)Pyrene	50328	5.40E-10	0.00
Benzo(b)Fluoranthene	205992	1.16E-09	0.00
Benzo(e)Pyrene	192972	8.03E-10	0.00
Benzo(g,h,i)Perylene	191242	9.01E-10	0.00
Benzo(k)Fluoranthene	207089	1.80E-10	0.00
Cadmium	7440439	2.59E-08	0.01
Chlorobenzene	108907	1.27E-08	0.00
Chromium	7440473	1.16E-07	0.04
Chrysene	218019	3.74E-09	0.00
Copper	7440508	5.30E-07	0.16
Dioxin 4D	1746016	5.63E-12	0.00
Dioxin 5D 12378	40321764	4.58E-12	0.00
Dioxin 6D 123478	39227286	4.03E-12	0.00
Dioxin 6D 123678	57653857	4.40E-12	0.00
Dioxin 6D 123789	19408743	5.03E-12	0.00
Dioxin 7D	35822469	1.42E-11	0.00
Dioxin 8D	3268879	8.62E-11	0.00
Ethyl Chloride (Chloroethane)	75003	7.78E-09	0.00
Ethyl benzene	100414	1.96E-07	0.06
Fluoranthene	206440	2.46E-08	0.01
Fluorene	86737	7.68E-08	0.02
Furan 4F	51207319	4.22E-11	0.00
Furan 5F 12378	57117416	9.74E-12	0.00
Furan 5F 23478	57117314	1.38E-11	0.00
Furan 6F 123478	70648269	1.37E-11	0.00
Furan 6F 123678	57117449	6.92E-12	0.00
Furan 6F 123789	72918219	5.91E-12	0.00
Furan 6F 234678	60851345	9.03E-13	0.00
Furan 7F 1234678	67562394	2.64E-11	0.00
Furan 7F 1234789	55673897	1.52E-12	0.00
Furan 8F	39001020	9.54E-12	0.00
Hexachlorobenzene	118741	2.31E-10	0.00
Hexavalent Chromium**	18540299	5.78E-09	0.00
Hydrochloric acid	7647010	6.44E-04	199.72
Hydrogen Fluoride	7664393	1.94E-05	6.03
Indeno(1,2,3-cd)Pyrene	193395	6.31E-10	0.00
Lead	7439921	2.19E-06	0.68
Manganese	7439965	8.88E-08	0.03
Mercury	7439976	9.30E-10	0.00
Methyl Chloride (Chloromethane)	74873	1.57E-07	0.05
Methylene Chloride	75092	2.88E-08	0.01
Naphthalene	91203	2.04E-06	0.63
Nickel	7440020	7.20E-08	0.02
PCB 77 3,3',4,4'-tetra	32598133	1.05E-11	0.00
PCB 81 3,4,4',5-tetra	70362504	1.22E-12	0.00
PCB 105 2,3,3',4,4'-penta	32598144	6.95E-12	0.00
PCB 114 2,3,4,4',5-penta	74472370	8.72E-13	0.00
PCB 118 2,3',4,4',5-penta	31508006	9.66E-12	0.00
PCB 123 2',3,4,4',5-penta	65510443	4.82E-12	0.00
PCB 126 3,3',4,4'5-penta	57465288	4.86E-12	0.00
PCB 156 2,3,3',4,4',5-hexa	38380084	5.24E-12	0.00
PCB 157 2,3,3',4,4',5'-hexa	69782907	1.75E-12	0.00
PCB 167 2,3',4,4',5,5'-hexa	52663726	2.43E-12	0.00
PCB 169 3,3',4,4',5,5'-hexa	32774166	1.17E-12	0.00
PCB 189 2,3,3',4,4',5,5'-hepta	39635319	1.88E-12	0.00
Pentachlorophenol	87865	3.58E-10	0.00
Perylene	198550	9.01E-11	0.00
Phenanthrene	85018	6.52E-07	0.20
Pyrene	129000	3.56E-08	0.01
Selenium	7782492	1.25E-07	0.04
Silver	7440224	4.03E-09	0.00
Toluene	108883	2.74E-06	0.85
Vinyl Chloride	75014	1.48E-07	0.05
Xylene	1330207	4.54E-07	0.14
Zinc	7440666	1.66E-05	5.16

**References:**

\* Emission factors are derived from the 2006 Canadian Environmental Technology Centre report, *Characterization of Emissions from an Animal Crematorium Shenandoah A850*.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*Emissions = EF (lb/ lb Poultry Incinerated) x 850 lb/day x 365 days/yr

389 BHP (INTERMITTENT) IVECO/FPT INDUSTRIAL S.P.A. MODEL F2CE9685A-E TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY  
STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

Substances	CAS#	lbs/ 1,000 gallons*	Emissions***
1,3 Butadiene	106990	3.82E-03	0.008
Acetaldehyde	75070	5.23E-03	0.011
Arsenic	7440382	3.06E-03	0.006
Benzene	71432	1.71E-02	0.035
Beryllium	7440417	4.21E-05	0.000
Cadmium	7440439	1.02E-03	0.002
Carbon Tetrachloride	56235	4.43E-03	0.009
Chlorobenzene	108907	3.81E-03	0.008
Chloroform	67663	3.67E-03	0.008
Chromium	7440473	2.04E-03	0.004
Ethylene Dichloride	107062	2.79E-03	0.006
Formaldehyde	50000	1.38E-01	0.285
Hexavalent Chromium**	18540299	1.02E-04	0.000
Lead	7439921	3.06E-03	0.006
Manganese	7439965	1.08E-01	0.223
Mercury	7439976	1.64E-04	0.000
Methylene Chloride	75092	3.92E-03	0.008
Naphthalene	91203	2.10E-02	0.043
Nickel	7440020	7.12E-03	0.015
p-Dichlorobenzene	106467	4.23E-03	0.009
PAHs	1151	2.15E-02	0.044
Perchloroethylene	127184	4.78E-03	0.010
Selenium	7782492	1.02E-02	0.021
Trichloroethylene	79016	3.79E-03	0.008
Vinyl Chloride	75014	8.99E-03	0.019
Vinylidene Chloride	75354	2.79E-03	0.006
Total:			0.794

**References:**

\* The emission factors were derived from the 2002 update of EPA's Stationary Combustion Turbines Emissions Database. The District uses a Diesel Heating Value of 137MMBtu/1,000 gallons.

\*\*5% of Chromium considered Hexavalent Chromium (District Policy)

\*\*\*Emissions = EF (lb-pollutant)/1,000 gal x 2,063 gal/yr; Fuel use = 20.63 gal/hr x 100 hr/yr (permitted non-emergency use) = 2,063 gal/yr

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# ATTACHMENT D

Detailed Facility List

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**Detailed Facility Report**  
For Facility=5526 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>RAINBOW FARMS</b> <b>1220 HALL RD</b> <b>DENAIR, CA 95316</b>	FAC # STATUS: TELEPHONE:	<b>N 5526</b> <b>A</b>	TYPE: TOXIC ID:	<b>TitleV</b>	EXPIRE ON: AREA: INSP. DATE:	12/31/2017 7 / 306 08/19
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-5526-1-4	624 HP LAYING HEN HOUSES	3020-01 F	1	698.00	698.00	A	LAYING HEN RANCH INCLUDING 1,786,000 LAYERS CONSISTING OF 23 MECHANICALLY VENTILATED LAYER HOUSES INCLUDING ELECTRIC FANS TOTALING 624 HP
N-5526-2-3	SOLID MANURE MANAGEMENT	3020-06	1	122.00	122.00	A	SOLID MANURE HANDLING SYSTEM CONSISTING OF OPEN MANURE STOCK PILES WITH SOLID MANURE APPLICATION TO LAND, OFFSITE HAULING, AND ON-SITE COMPOSTING
N-5526-4-1	234 HP IC ENGINE	3020-10 C	1	277.00	277.00	A	234 BHP CATERPILLAR MODEL 3306D1 (S/N: 85Z11102) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (PEPPER)
N-5526-6-1	147 HP IC ENGINE	3020-10 B	1	136.00	136.00	A	147 BHP DEUTZ MODEL 1013FC (S/N: 00410072) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (CORTEZ)
N-5526-7-1	1839 HP IC ENGINE	3020-10 F	1	860.00	860.00	A	1,839 BHP CATERPILLAR MODEL 3306DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (HALL)
N-5526-9-1	450 HP IC ENGINE	3020-10 D	1	551.00	551.00	A	450 BHP GENERAL MOTORS MODEL W-LS-TT (S/N: 500-600) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SHASTA)
N-5526-10-1	450 HP IC ENGINE	3020-10 D	1	551.00	551.00	A	450 BHP DETROIT MODEL 12V71 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (SIERRA)
N-5526-12-1	450 HP IC ENGINE	3020-10 D	1	551.00	551.00	A	450 BHP DAEWOO MODEL P180LE(G) (S/N: 401438EASOC) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (VEGAS)
N-5526-13-1	300 HP IC ENGINE	3020-10 C	1	277.00	277.00	A	300 BHP GENERAL MOTORS MODEL 500-600 (S/N: 514769) DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (YOSEMITE)
N-5526-14-1	1 Nozzle	3020-11 A	1	40.00	40.00	A	AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1,000 GALLON ABOVEGROUND STORAGE TANK SERVED BY TWO-POINT PHASE I VAPOR RECOVERY SYSTEM (G-70-142-B), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE
N-5526-19-1	490 HP	3020-10 D	1	551.00	551.00	A	490 BHP DETROIT DIESEL MODEL 606MK35 SPECB34450 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-5526-20-1	0.5 MMBtu/hr	3020-02 C	1	228.00	228.00	A	0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER
N-5526-21-1	0.5 MMBtu/hr burner	3020-02 C	1	228.00	228.00	A	0.4 MMBTU/HR CHORE-TIME MODEL A600 DIESEL-FIRED POULTRY INCINERATOR WITH 0.09 MMBTU/HR AFTERBURNER

**Detailed Facility Report**  
For Facility=5526 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-5526-22-1	871 Bhp	3020-10 E	1	691.00	691.00	A	871 BHP DAEWOO MODEL P222LE TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR (FORMERLY N-5526-5-0)
N-5526-23-1	Miscellaneous	3020-06	1	122.00	122.00	A	ORGANIC WASTE MATERIAL RECEIVING, STORAGE, AND MIXING OPERATION
N-5526-24-1	Miscellaneous	3020-06	1	122.00	122.00	A	OPEN WINDROW ACTIVE AND CURING PHASE CO-COMPOSTING OPERATION
N-5526-25-1	Miscellaneous	3020-06	1	122.00	122.00	A	FINISHED COMPOST STORAGE AND LOADOUT OPERATION
N-5526-26-1	157 bhp	3020-10 B	1	136.00	136.00	A	157 BHP PERKINS MODEL 1104D-E44TAG2 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR
N-5526-27-0	0.49 MMBtu/hr	3020-02 C	1	228.00	228.00	A	SHENANDOAH A-850 POULTRY INCINERATOR #1 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER
N-5526-28-0	0.49 MMBtu/hr	3020-02 C	1	228.00	228.00	A	SHENANDOAH A-850 POULTRY INCINERATOR #2 WITH A 0.42 MMBTU/HR DIESEL-FIRED MAIN BURNER AND A 0.07 MMBTU/HR DIESEL-FIRED AFTERBURNER
N-5526-29-1	389 bhp IC Engine	3020-10 C	1	277.00	277.00	A	389 BHP (INTERMITTENT) IVECO/FPT INDUSTRIAL S.P.A. MODEL F2CE9685A-E TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

Number of Facilities Reported: 1