



**JUN 02 2011**

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

**Re: Notice of Final Action - Title V Permit Renewal  
District Facility # N-2246  
Project # N-1091436**

Dear Mr. Rios:

The District has issued the Final Renewed Title V Permit for Turlock Irrigation District. The preliminary decision for this project was made on March 10, 2011. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

The public notice for issuance of the Final Renewed Title V Permit will be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner  
Director of Permit Services

Attachments

cc: Vanesa Gonzalez, Permit Services Engineer

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
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JUN 02 2011

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

**Re: Notice of Final Action - Title V Permit Renewal  
District Facility # N-2246  
Project # N-1091436**

Dear Mr. Tollstrup:

The District has issued the Final Renewed Title V Permit for Turlock Irrigation District. The preliminary decision for this project was made on March 10, 2011. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

The public notice for issuance of the Final Renewed Title V Permit will be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

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JUN 02 2011

George Davies, IV  
Turlock Irrigation District  
P O Box 949  
Turlock, CA 95381-0949

**Re: Notice of Final Action - Title V Permit Renewal  
District Facility # N-2246  
Project # N-1091436**

Dear Mr. Davies, IV:

The District has issued the Final Renewed Title V Permit for Turlock Irrigation District. The preliminary decision for this project was made on March 10, 2011. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

The public notice for issuance of the Final Renewed Title V Permit will be published approximately three days from the date of this letter.

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

Sincerely,

David Warner  
Director of Permit Services

Attachments

cc: Vanesa Gonzalez, Permit Services Engineer

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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Modesto Bee

**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT  
NOTICE OF FINAL DECISION TO ISSUE  
RENEWED FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the renewed Federally Mandated Operating Permit to Turlock Irrigation District for its electric power generation operation at 325 S. Washington Road in Turlock, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1091436, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. For additional information regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900, or contact David Warner, Director of Permit Services, in writing at SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.

# SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

## Title V Permit Renewal Evaluation Turlock Irrigation District N-2246

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**TITLE V PERMIT RENEWAL EVALUATION**  
Electric Power Generation

**Engineer:** Vanesa Gonzalez  
**Date:** March 7, 2011

**Facility Number:** N-2246  
**Facility Name:** Turlock Irrigation District  
**Mailing Address:** P O Box 949  
Turlock, CA 95381

**Contact Name:** George A. Davies, IV  
**Phone:** (209) 883-3451

**Responsible Official:** George A. Davies, IV  
**Title:** Combustion Turbine Department Manager

**Project # :** N-1091436  
**Deemed Complete:** April 8, 2009

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**I. PROPOSAL**

Turlock Irrigation District was issued a Title V permit on October 31, 2004. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

The purpose of this evaluation 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. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

**II. FACILITY LOCATION**

Turlock Irrigation District is located at 325 Washington Road in Turlock, CA.

### 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 is requesting to use the following model general permit Templates:

#### A. Template SJV-UM-0-3 Facility Wide Umbrella

The applicant has requested to utilize template No. 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 Renewed 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.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 40 of the requirements for permit unit N-2246-0-2.

### VI. FEDERALLY ENFORCEABLE REQUIREMENTS

#### A. Rules Updated

- District Rule 4703, Stationary Gas Turbines  
(amended April 25, 2002 ⇒ amended September 20, 2007)

#### **B. Rules Removed**

- District Rule 4701, Internal Combustion Engines Phase 1

#### **C. Rules Added**

- District Rule 4702, Internal Combustion Engines Phase 2  
(adopted August 21, 2003 ⇒ amended January 18, 2007)

#### **D. Rules Not Updated**

- District Rule 1081, Equipment Breakdown (amended December 16, 1993)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)

### **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:

District Rule 4102, Nuisance (as amended December 17, 1992)

Condition 42 of permit unit -0-2, and condition 2 of permit unit -9-2 are based on District Rule 4102 and will therefore not be discussed any further.

### **VIII. PERMIT REQUIREMENTS**

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit.



**A. District Rule 2201 - New and Modified Stationary Source Review Rule**

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.26, defined as an action including at least one of the following items:

- 1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- 4) Addition of any new emissions unit which is subject to District permitting requirements.
- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

Therefore, the updated requirements of this rule are not applicable at this time.

**N-2246-0-2: Facility Wide Requirements**

During implementation of ATCs N-2246-1-4 and -2-4 under project N-1021512, and ATCs N-7172-1-0, -2-0, and -3-0 under project N-1050993, the SO<sub>x</sub>, NO<sub>x</sub>, and PM<sub>10</sub> emission limits listed as conditions 43 thru 49 of the current PTO N-2246-0-2 should have been removed. Under the above listed ATC for the stationary source the emissions limits were to be removed from the facility wide permit and added to each individual permit. However conditions 43 thru 49 were inadvertently left on the facility wide permit during their conversion. Therefore, conditions 43 thru 49 of the current PTO will be removed from the facility wide requirements.

**B. District Rule 2520 – Federally Mandated Operating Permits**

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

**C. District Rule 4701, Internal Combustion Engines Phase 1**

Per Rule 4702, section 7.6.3.3, the owner of an engine that is subject to the requirements of Rule 4701 shall no longer be subject to the requirements of Rule 4701 pursuant to the following requirements:

- For an engine that is subject to the requirements of Section 4.1 of Rule 4702, the requirements of Rule 4701 shall not apply effective on and after January 1, 2006, or
- For an engine that is subject to the requirements of Section 4.2, Section 4.3, or Section 5.1 of Rule 4702, the requirements of Rule 4701 shall not apply effective on the date that such engine is required to be in full compliance with Rule 4702.

The engines at this facility are subject to the requirements of section 4.2. Therefore the engines at this facility are no longer subject to Rule 4701.

**D. District Rule 4702, Internal Combustion Engines–Phase 2**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. This rule applies to any internal combustion (IC) engine with a rated brake horsepower greater than 50 horsepower.

Pursuant to Section 4.3, except for the requirements of Section 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that meets the following conditions:

- 1) The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood, and
- 2) Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed operating time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine, and
- 3) The engine is operated with a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

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 submitted to the APCO upon request and at the end of each calendar year in a manner and form approved by the APCO.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Conditions 4 and 7 through 14 of the permit requirements for this unit ensure compliance with this rule.

- b. N-2246-9-2: 170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY JOHNSON MATTHEY'S MODEL BANDITO NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, POWERING AN ELECTRIC GENERATOR

Conditions 3 and 10 through 17 of the permit requirements for this unit ensure compliance with this rule.

#### **E. District Rule 4703 – Stationary Gas Turbines**

This rule applies to all stationary gas turbine systems, which are subject to District permitting requirements, and with ratings equal to or greater than 0.3 megawatt (MW) or a maximum heat input rating of more than 3,000,000 Btu per hour.

Section 5.1.2 requires the owner or operator to meet the applicable emission limits of Table 5-2, Tier 2 NO<sub>x</sub> Compliance Limits.

- a. N-2246-1-6 and -2-6: 25.8 MW TURBINE/GENERATOR SET

Conditions 8, 9, 10, and 11 of the requirements for this permit ensure compliance with this section.

Section 5.1.3 requires the owner or operator to meet the applicable emission limits of Table 5-3, Tier 3 NO<sub>x</sub> Compliance Limits, by the compliance date in Section 7.3 of this rule. Per Section 7.3 the units at this facility are not required to meet the requirements of this section till October 1, 2011 or within 90 days of a major overhaul whichever comes first.

Section 5.2 requires the owner or operator to meet 200 ppmvd CO @ 15% O<sub>2</sub>.

Section 5.3 states that on or after the compliance due date the applicable emission limits will not be applicable during a transitional operational period. Section 3.33 defines the transitional operational period as any of the bypass transition period, primary re-ignition period, reduced load period, startup, or shutdown.

a. N-2246-1-6 and -2-6: 25.8 MW TURBINE/GENERATOR SET

Conditions 40 through 44 of the requirements for this permit ensure compliance with this section.

Section 6.1 requires that the owner or operator of any existing stationary gas turbine system, unless exempted in Section 6.1.5, shall submit, to the APCO for approval, an emissions control plan of all actions, including a schedule of increments of progress, which will be taken to comply with the requirements of the applicable NO<sub>x</sub> Compliance Limit in Section 5.0 and Compliance Schedule in Section 7.0. This has already been satisfied.

Section 6.2 requires the owner or operator, for the turbines with exhaust gas NO<sub>x</sub> control devices, to either install, operate, and maintain continuous emissions monitoring system (CEMS) for NO<sub>x</sub> and O<sub>2</sub>, or install and maintain one or more of the pre-approved alternate monitoring methods given in Sections 6.2.1.1 through 6.2.1.7. The facility has chosen to use a pre-approved alternate monitoring method.

Section 6.2.4 requires the owner or operator to maintain all records for a period of five year from the date of data entry and shall make such records available to the APCO upon request. Conditions will be included to satisfy compliance with this section.

Section 6.2.5 requires the owner or operator to submit information correlating the control system operating parameters to the associated NO<sub>x</sub> output. This information may be used by the APCO to determine compliance when there is no continuous emission monitoring system for NO<sub>x</sub> available or when the continuous emission monitoring system is not operating properly.

Section 6.2.6 requires the owner or operator to maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up time and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used (liquid/gas).

Section 6.2.8 requires that the operator performing start-up or shutdown of a unit shall keep records of the duration of start-up or shutdown.

a. N-2246-1-6 and -2-6: 25.8 MW TURBINE/GENERATOR SET

Conditions 35, 36, and 38 of the requirements for this permit ensure compliance with this section.

Section 6.3.1 requires that the owner or operator of any stationary gas turbine systems subject to the provisions of Section 5.0 of this rule shall provide source test information annually regarding the exhaust gas NO<sub>x</sub> and CO concentrations. Section 6.3.3 requires the owner or operator of any unit with an intermittently operated auxiliary burner shall demonstrate compliance with the auxiliary burner both on and off.

a. N-2246-1-6 and -2-6: 25.8 MW TURBINE/GENERATOR SET

Conditions 24 and 25 of the requirements for this permit ensure compliance with this section.

Section 6.4 identifies various test methods to measure NO<sub>x</sub>, CO, O<sub>2</sub>, HHV and LHV of gaseous fuels.

a. N-2246-1-6 and -2-6: 25.8 MW TURBINE/GENERATOR SET

Conditions 29, 30, and 31 of the requirements for this permit ensure compliance with this section.

Section 7.3 requires that all owners or operators shall demonstrate and maintain compliance with the applicable provisions of Sections 5.0 and 6.0 in accordance with the following compliance schedule: This has already been satisfied.

**F. 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines**

The provisions of this subpart are applicable to all stationary gas turbines with a heat input at peak load equal to or greater than 10 million Btu per hour. Section 60.334 and 60.335 of this Subpart was amended February 24, 2006.

The amended provisions, 40 CFR 60.334(c), (e), and (f) clarify that the monitoring methods are options rather than requirements for turbines that do not use water or steam to control NO<sub>x</sub> emissions. In addition, the introductory text of 46 CFR 60.334(j), 60.334(j)(1)(iv), and 40 CFR 60.335(b)(8) were also revised to reflect the amended provisions of 40 CFR 60.334(c), (e), and (f). Since this permit unit uses water/steam injection to control NO<sub>x</sub> emissions, the amended provisions are not applicable to this gas turbine.

a. N-2246-1-6 and -2-6: 25.8 MW TURBINE/GENERATOR SET

Conditions 3 through 7, 9, 11, 32 through 35, and 39 on the proposed permit assure compliance with the requirements of this rule.

**G. 40 CFR Part 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

This subpart contains standards that apply to manufacture, owner and operator of stationary spark ignited internal combustion engines. Section 60.4230 lists who is subject to this subpart.

Per section 60.4230(a) the provisions of this subpart are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (5) 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.

Parts (1) through (3) applies to manufacturers of engines. Since this facility did not manufacturer the engines this section does not apply to the engines at this facility and will not be discussed any further.

Per Section 60.4230 (a)(4) this rule applies to owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured:

- (i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);
- (ii) on or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP;
- (iii) on or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or
- (iv) on or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP).

Per Section 60.4230 (a)(5) owners and operators of stationary SI ICE that commence modification or reconstruction after June 12, 2006. Since the engines of at this facility have not been modified or reconstructed this section does not apply and will not be discussed further.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

This unit was not constructed, modified or reconstructed after June 12, 2006. Therefore per section 60.4230(a) and (b), this subpart does not apply to this unit.

- b. N-2246-9-2: 170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY JOHNSON MATTHEY'S MODEL BANDITO NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, POWERING AN ELECTRIC GENERATOR

This unit was installed in 2007. The engine installed was manufactured prior to January 1, 2009. Therefore per section 60.4230(a)(iv), this subpart does not apply to this engine.

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

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

Per section 63.6585 a facility is subject to this subpart if they 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.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

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

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

This facility is an area source of HAP emissions and has two stationary RICE that may be subject to this subpart, units N-2246-8 and -9.

Section 63.6590 list what parts of a plant are covered by this subpart.

(a) *Affected source.* 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.

(3) *Reconstructed 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 reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced 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 reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(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.

(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.

(2) A new or reconstructed stationary RICE with a site rating of more than 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 must meet the initial notification requirements of §63.6645(f) and the requirements of §§63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.

(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:

- (i) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (vi) Existing residential emergency stationary RICE located at an area source of HAP emissions;
- (vii) Existing commercial emergency stationary RICE located at an area source of HAP emissions; or
- (viii) Existing institutional emergency stationary RICE located at an area source of HAP emissions.

(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.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

This unit was not constructed, modified or reconstructed after June 12, 2006 and is therefore considered an existing emergency stationary RICE.

- b. N-2246-9-2: 170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY JOHNSON MATTHEY'S MODEL BANDITO NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, POWERING AN ELECTRIC GENERATOR

This unit was constructed after June 12, 2006 and is therefore considered new emergency stationary RICE. Per section 63.6950(c)(1) A new or reconstructed stationary RICE located at an area source 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. Therefore, this unit meets the requirements of this subpart by meeting the requirements of 40 CFR part 60 subpart JJJJ as discussed previously.

Section 63.6595 contains the date in which an affected source is required to be in compliance with the emissions and operating limitations.

Per Section 63.6595(a)(1) if you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of

HAP emissions, an existing stationary CI 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 CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013.

a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

This unit is required to be in compliance with this rule by May 3, 2013. The facility has proposed to bring this unit in compliance with this rule during this permit renewal.

Section 63.6600 contains the emission limitations and operating limitations for owners or operators of a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.

Section 63.6601 contains the limitations for owners or operators of a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than or equal to 500 brake HP located at a major source of HAP emissions. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.

Section 63.6602 contains the emission limitations an owner or operator of 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. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.

Section 63.6603 contains the emission limitations and operating limitations for owners or operators with an existing stationary RICE located at an area source of HAP emissions. 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.

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d

to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

(b) If you own or operate an existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the Federal Aid Highway System (FAHS) you do not have to meet the numerical CO emission limitations specified in Table 2d to this subpart. Existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the FAHS must meet the management practices that are shown for stationary non-emergency CI RICE less than or equal to 300 HP in Table 2d to this subpart.

a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

This unit is subject to the requirements of Table 2d "*Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions*". Category 5 of Table 2d applies to emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. Engines subject to Table 2d, Category 5 are required to:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;<sup>1</sup>
- b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Condition 15 was added to the requirements for this unit will ensure compliance with this subsection.

Section 63.6604 contains the fuel requirements for the owner or operator of an existing non-emergency, non-black start CI stationary RICE. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.

Per Section 63.6605, the general requirements for complying with this subpart are as follows.

- (a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.
- (b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a

manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 7 of the requirements for this unit will ensure compliance with this subsection.

Sections 63.6610 through Section 63.6620 do not apply to any permit units at this facility. Therefore, this section will not be discussed any further.

Section 63.6625 contains monitoring, installation, collection, operation, and maintenance requirements.

Subsection (a) applies to units that elect to install a CEMS as specified in Table 5 of this subpart. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.

Subsection (b) applies to unit required to install a continuous parameter monitoring system (CPMS). None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.

Subsection (c) applies to new or reconstructed stationary. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.

Subsection (d) applies to a new or reconstructed emergency 4SLB stationary RICE. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.

Per subsection (e) If you own or operate any of the following stationary RICE, 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:

- (1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;

- (2) 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;
- (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;
- (4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;
- (5) An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions;
- (6) An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions;
- (7) An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;
- (8) An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;
- (9) An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and
- (10) An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 7 of the requirements for this unit will ensure compliance with this subsection.

Per Subsection (f) 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.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 4 of the requirements for this unit will ensure compliance with this subsection.

Subsection (g) applies to existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.

Per Subsection (h) the owner or operator of a new, reconstructed, or existing stationary engine, 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.

a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 16 was added to the requirements for this unit will ensure compliance with this subsection.

Per Subsection (i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. Since none of the units at this source are subject to the table and categories listed above no further discussion of this subsection is required.

Per subsection (j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. 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 Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid 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.

a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 17 of the requirements for this unit will ensure compliance with this subsection.

Subsection (k) apply to engines with an operating limitation that requires the use of a temperature measurement device. Since now of the engines at this facility are required to have a temperature measuring device this subsection does not apply and there will be no further discussion.

Section 63.6630 contains the requirements for initial source testing to demonstrate compliance with emissions limits. Since there are no emission limits imposed by this Subpart, no initial testing is required. Therefore, this section will not be discussed any further.

Section 63.6635 contains the requirements to monitor and collect data to demonstrate continuous compliance. The engines at this facility are not required to monitor and collect data. Therefore, this section will not be discussed any further.

Section 63.6640 contains the requirements to demonstrate continuous compliance with the emission limitations and operating limitations.

Per subsection (a) an owner or operator must demonstrate continuous compliance with each emission limitation and operating limitation 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.

Per subsection (b) an owner or operator 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.

(c) [Reserved]

Subsection (d) applies to new, reconstructed, and rebuilt stationary RICE. This subsection does not apply to any units at this facility therefore; this section does not apply and will not be discussed any further.

Subsection (e) does not apply to an owner or operator of existing emergency stationary RICE. Therefore not further discussion is required.

Subsection (f) contains the Requirements for emergency stationary RICE.

Per Subsection (1) an owner or operator 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, 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 was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

- (i) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. 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 RICE beyond 100 hours per year.
- (iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted

towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 12 of the requirements for this unit will ensure compliance with this subsection.

Subsection (2) applies to owners or operators of an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006. This subsection does not apply to any units at this facility therefore; this section does not apply and will not be discussed any further.

Section 63.6645 contains what notifications must be submitted. Per subsection (a)(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. Therefore this subsection will not be discussed any further.

Section 63.6650 contains what reports must be submit and when. This facility does not need to submit any reports therefore this section does not apply and no further discussion is required.

Section 63.6655 list what records must I keep. Subsections (a) through (e) do not apply to existing emergency stationary RICE at area sources. Therefore they will not be discussed.

Per subsection (e) the owner or operator 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.

Per subsection (f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (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 engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

- (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.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 11 of the requirements for this unit will ensure compliance with this subsection.

Per section 63.6660 (a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1). Subsection (b) requires that 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. Per subsection (c) the owner or operator 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).

a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

Condition 14 of the requirements for this unit will ensure compliance with this subsection.

**I. 40 CFR Part 64 - CAM**

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

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

a. N-2246-1-6: TURBINE/GENERATOR SET #1, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361, NATURAL GAS/FUEL OIL #2 FIRED

This unit is not subject to CAM since, it is not equipped with add-on control equipment.

b. N-2246-2-6: TURBINE/GENERATOR SET #2, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361

This unit is not subject to CAM since, it is not equipped with add-on control equipment.

c. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

This unit has emission factors for all pollutants. It is equipped with an add-on control for NO<sub>x</sub>, CO, and VOC in the form of a non-selective catalyst. However, as shown below, the pre-control potential to emit is not greater than the major source threshold of 20,000 pounds NO<sub>x</sub>/year,

20,000 lb-VOC/year, and 200,000 lb-CO/year. Therefore, this unit is not subject to CAM requirements.

The uncontrolled emission factors were taken from AP-42, Table 3.2-3 (7/00).

Pre-Control Potential to Emit							
NO <sub>x</sub>	7.48	(g/hp·hr) x	170	(hp) x	100	(hr/yr) ÷ 453.6 (g/lb) =	280 (lb/yr)
CO	12.3	(g/hp·hr) x	170	(hp) x	100	(hr/yr) ÷ 453.6 (g/lb) =	35 (lb/yr)
VOC	0.099	(g/hp·hr) x	170	(hp) x	100	(hr/yr) ÷ 453.6 (g/lb) =	0 (lb/yr)

- d. N-2246-9-2: 170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY JOHNSON MATTHEY'S MODEL BANDITO NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, POWERING AN ELECTRIC GENERATOR

This unit has emission factors for all pollutants. It is equipped with an add-on control for NO<sub>x</sub>, CO, and VOC in the form of a non-selective catalyst. However, as shown below, the pre-control potential to emit is not greater than the major source threshold of 20,000 pounds NO<sub>x</sub>/year, 20,000 lb-VOC/year, and 200,000 lb-CO/year. Therefore, this unit is not subject to CAM requirements.

The uncontrolled emission factors were taken from AP-42, Table 3.2-3 (7/00).

Pre-Control Potential to Emit							
NO <sub>x</sub>	7.48	(g/hp·hr) x	170	(hp) x	100	(hr/yr) ÷ 453.6 (g/lb) =	280 (lb/yr)
CO	12.3	(g/hp·hr) x	170	(hp) x	100	(hr/yr) ÷ 453.6 (g/lb) =	35 (lb/yr)
VOC	0.099	(g/hp·hr) x	170	(hp) x	100	(hr/yr) ÷ 453.6 (g/lb) =	0 (lb/yr)

## 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

1. Model General Permit Template SJV-UM-0-2

By submitting Model General Permit Template SJV-UM-0-2 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template is included as conditions 39 and 40 of the facility-wide requirements (N-2246-0-2).

## **X. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

## **XI. ATTACHMENTS**

- A. Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List
- D. Facility Comments and District Response

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# ATTACHMENT A

Renewed Title V Operating Permit

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# Permit to Operate

**FACILITY:** N-2246

**EXPIRATION DATE:** 09/30/2015

**LEGAL OWNER OR OPERATOR:**

TURLOCK IRRIGATION DISTRICT

**MAILING ADDRESS:**

333 CANAL DR  
TURLOCK, CA 95380

**FACILITY LOCATION:**

325 WASHINGTON ROAD  
TURLOCK, CA 95380

**FACILITY DESCRIPTION:**

POWER GENERATION FACILITY

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

**Seyed Sadredin**  
Executive Director / APCO

**David Warner**  
Director of Permit Services

# San Joaquin Valley Air Pollution Control District

**FACILITY:** N-2246-0-2

**EXPIRATION DATE:** 09/30/2015

## **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, 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. 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. 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. 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. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. 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, 9.4.1] 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, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: TURLOCK IRRIGATION DISTRICT  
Location: 325 WASHINGTON ROAD, TURLOCK, CA 95380  
N-2246-0-2 - May 31 2011 9:57AM - GONZALEV

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, 9.5.1] 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, 9.5.2 and 1100, 7.0] 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, 9.7] 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, 9.8.2] 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, 9.8.3] 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, 9.8.4] 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, 9.8.5] 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, 9.9] Federally Enforceable Through Title V Permit
18. 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. 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. 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. 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
22. 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. 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. 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. 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. 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. 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. 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. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. 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.

36. 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. 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. 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. 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. 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. On October 31, 2004, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin November 1st 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
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. Facilities N-2246 and N-7172 are included in the same stationary source. [District Rule 2201] 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-2246-1-6

**EXPIRATION DATE:** 09/30/2015

**EQUIPMENT DESCRIPTION:**

TURBINE/GENERATOR SET #1, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361, NATURAL GAS/FUEL OIL #2 FIRED

## PERMIT UNIT REQUIREMENTS

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1. This unit is subject to the requirements of 40 CFR Part 60, Subpart GG: Standards of Performance for Stationary Gas Turbines. [District Rule 4001] Federally Enforceable Through Title V Permit
2. The owner shall monitor operational characteristics recommended by the turbine manufacturer or emission control system supplier. [District Rule 4703] Federally Enforceable Through Title V Permit
3. This unit shall be fired on only natural gas or fuel oil #2. The primary fuel shall be natural gas; fuel oil #2 shall be used as a backup fuel only in the event of a natural gas shortage. [District Rule 2201 and 40 CFR 60.331(r)] Federally Enforceable Through Title V Permit
4. This unit shall be fired only on natural gas with a sulfur content not exceeding 1.0 grain of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas. If this is fired on PUC-regulated natural gas, compliance with this sulfur content limit may be demonstrated with fuel receipts. [District Rules 2201, 4801, Stanislaus County Rule 407, and 40 CFR 60.333(b), (h)(3)] Federally Enforceable Through Title V Permit
5. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until compliance is demonstrated for eight consecutive weeks. [40 CFR 60.334(h)] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall be less than 0.05 percent by weight. [District Rule 4703, 4801, Stanislaus County Rule 407, and 40 CFR 60.333(b)] Federally Enforceable Through Title V Permit
7. The sulfur content of the fuel oil shall be determined each time fuel is transferred into the on-site storage tank. [40 CFR 60.334(j)] Federally Enforceable Through Title V Permit
8. The operation of this unit shall not exceed 877 hours during any one year. [District Rule 4703] Federally Enforceable Through Title V Permit
9. When firing on natural gas, NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 25.0 ppmvd @ 15% O<sub>2</sub>, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201, 4703, and 40 CFR 60.332(b), 334(j)] Federally Enforceable Through Title V Permit
10. When firing on fuel oil, the NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 42.0 ppmvd @ 15% O<sub>2</sub> and 51 lb/hr, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
11. The NO<sub>x</sub> emission concentration shall not exceed 42 ppmvd @ 15% O<sub>2</sub> except during transitional operation period, and the NO<sub>x</sub> emission rate shall not exceed 51 pounds in any one hour. [District Rules 2201, 4703, and 40 CFR 60.332(b), 334(j)] 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 combined NOx emissions from permit units N-2246-1 and N-2246-2 shall not exceed 1,020 lb/day and shall not exceed 25,551 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
13. When firing on either natural gas or fuel oil, CO emissions shall not exceed 200 ppmvd @ 15% O2, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
14. The cumulative annual CO emissions from permit units N-2246-1 and N-2246-2 shall be less than 200,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
15. When firing on either natural gas or fuel oil, VOC emissions shall not exceed 15.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
17. When firing on natural gas, PM10 emissions shall not exceed 8.60 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When firing on fuel oil, PM10 emissions shall not exceed 20.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The combined PM10 emissions from permit units N-2246-1 and N-2246-2 shall not exceed 150 pounds during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The annual PM10 emissions shall not exceed 7,016 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
21. When firing on natural gas, SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
22. When firing on fuel oil, SOx emissions shall not exceed 16.37 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
23. In the event of a natural gas shortage, SOx emissions from permit units N-2246-1 and N-2246-2 shall not exceed 5,950 pounds during any one month. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Source testing to demonstrate ongoing compliance with the NOx and CO emission limits for natural gas fuel shall be conducted at least once per 24-month period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. Source testing to demonstrate compliance with the NOx and CO emission limits for fuel oil shall be conducted within 30 days of operation on that fuel, unless the unit successfully demonstrated compliance with the NOx and CO emission limits for fuel oil within the previous 24 months. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
26. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] 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.



29. NOx emissions (referenced as NO2) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. [District Rules 1081, 4001, and 4703] Federally Enforceable Through Title V Permit
30. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
31. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A, or EPA method 20. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
32. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation of the turbine, and the fuel consumption and the ratio of water to fuel being fired in the turbine. The system shall be accurate to within + 5% and shall be approved by the administrator. [40 CFR 60.334(a) and (g)] Federally Enforceable Through Title V Permit
33. The steam or water to fuel ratio or other parameters that are continuously monitored, shall be monitored during the performance test required under <sup>1</sup> 60.8, to establish acceptable values and ranges. The owner or operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. The owner or operator shall develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NOx emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan. [40 CFR 60.334(g) and 60.7(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NOx emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
35. The continuous monitor of fuel, water, and water-to-fuel ratio system shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the NOx emission limits at 30, 50, 75, and 100% of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer. [District Rule 4703, 5.1 and 6.2.5; 40 CFR 60.344(g), (j)(1), 335(b) and (c) and 40 CFR 60.13(a)] Federally Enforceable Through Title V Permit
36. The owner shall maintain a stationary gas turbine system operating log that includes: the actual local start-up and stop time; length and reason for reduced load periods; total hours of operation on each fuel, and type and quantity of each fuel used. These records shall be updated daily. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
37. The owner shall maintain a log that shows the following: (a). The combined daily NOx emissions from permit units N-2246-1 and N-2246-2; (b). The combined daily PM10 emissions from permit units N-2246-1 and N-2246-2; (c). The cumulative quarterly NOx emissions from permit units N-2246-1 and N-2246-2; (d) The cumulative annual PM10 emissions from this permit unit (N-2246-1). This log shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
38. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
39. The owner or operator shall determine compliance with the sulfur content standard using the following methods: ASTM D129, D2622, D4294, D1266, D5453, D1552, D4084, D5504, D6228, or Gas Processors Association Standard 2377. [40 CFR 60.334(h)(1) or 40 CFR 60.335(d)(10)] 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.



40. Transitional Operation Period shall be defined as any of the following periods: bypass transition period, primary re-ignition period, reduced load period, start-up or shutdown. [District Rule 4703, 3.33] Federally Enforceable Through Title V Permit
41. Start-up shall be defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. [District Rule 4703, 3.29] Federally Enforceable Through Title V Permit
42. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rule 4703, 3.26] Federally Enforceable Through Title V Permit
43. The duration of each startup or shutdown shall not exceed two hours. [District Rule 4703, 5.3.3.1] Federally Enforceable Through Title V Permit
44. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during each transitional operation period. [District Rule 4703, 5.3.2] 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-2246-2-6

**EXPIRATION DATE:** 09/30/2015

**EQUIPMENT DESCRIPTION:**

TURBINE/GENERATOR SET #2, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361, NATURAL GAS/FUEL OIL #2 FIRED

## PERMIT UNIT REQUIREMENTS

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1. This unit is subject to the requirements of 40 CFR Part 60, Subpart GG: Standards of Performance for Stationary Gas Turbines. [District Rule 4001] Federally Enforceable Through Title V Permit
2. The owner shall monitor operational characteristics recommended by the turbine manufacturer or emission control system supplier. [District Rule 4703] Federally Enforceable Through Title V Permit
3. This unit shall be fired on only natural gas or fuel oil #2. The primary fuel shall be natural gas; fuel oil #2 shall be used as a backup fuel only in the event of a natural gas shortage. [District Rule 2201 and 40 CFR 60.331(r)] Federally Enforceable Through Title V Permit
4. This unit shall be fired only on natural gas with a sulfur content not exceeding 1.0 grain of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas. If this is fired on PUC-regulated natural gas, compliance with this sulfur content limit may be demonstrated with fuel receipts. [District Rules 2201, 4801, Stanislaus County Rule 407, and 40 CFR 60.333(b), (h)(3)] Federally Enforceable Through Title V Permit
5. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until compliance is demonstrated for eight consecutive weeks. [40 CFR 60.334(h)] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall be less than 0.05 percent by weight. [District Rule 4703, 4801, Stanislaus County Rule 407, and 40 CFR 60.333(b)] Federally Enforceable Through Title V Permit
7. The sulfur content of the fuel oil shall be determined each time fuel is transferred into the on-site storage tank. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit
8. The operation of this unit shall not exceed 877 hours during any one year. [District Rule 4703] Federally Enforceable Through Title V Permit
9. When firing on natural gas, NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 25.0 ppmvd @ 15% O<sub>2</sub>, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201, 4703, and 40 CFR 60.332(b), 334(j)] Federally Enforceable Through Title V Permit
10. When firing on fuel oil, the NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 42.0 ppmvd @ 15% O<sub>2</sub> and 51 lb/hr, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
11. The NO<sub>x</sub> emission concentration shall not exceed 42 ppmvd @ 15% O<sub>2</sub> except during transitional operation period, and the NO<sub>x</sub> emission rate shall not exceed 51 pounds in any one hour. [District Rules 2201, 4703, and 40 CFR 60.332(b), 334(j)] 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 combined NOx emissions from permit units N-2246-1 and N-2246-2 shall not exceed 1,020 lb/day and shall not exceed 25,551 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
13. When firing on either natural gas or fuel oil, CO emissions shall not exceed 200 ppmvd @ 15% O<sub>2</sub>, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
14. The cumulative annual CO emissions from permit units N-2246-1 and N-2246-2 shall be less than 200,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
15. When firing on either natural gas or fuel oil, VOC emissions shall not exceed 15.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
17. When firing on natural gas, PM<sub>10</sub> emissions shall not exceed 8.60 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When firing on fuel oil, PM<sub>10</sub> emissions shall not exceed 20.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The combined PM<sub>10</sub> emissions from permit units N-2246-1 and N-2246-2 shall not exceed 150 pounds during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The annual PM<sub>10</sub> emissions shall not exceed 7,016 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
21. When firing on natural gas, SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
22. When firing on fuel oil, SOx emissions shall not exceed 16.37 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
23. In the event of a natural gas shortage, SOx emissions from permit units N-2246-1 and N-2246-2 shall not exceed 5,950 pounds during any one month. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Source testing to demonstrate ongoing compliance with the NOx and CO emission limits for natural gas fuel shall be conducted at least once per 24-month period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. Source testing to demonstrate compliance with the NOx and CO emission limits for fuel oil shall be conducted within 30 days of operation on that fuel, unless the unit successfully demonstrated compliance with the NOx and CO emission limits for fuel oil within the previous 24 months. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
26. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O<sub>2</sub> analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] 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.

29. NO<sub>x</sub> emissions (referenced as NO<sub>2</sub>) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. [District Rules 1081, 4001, and 4703] Federally Enforceable Through Title V Permit
30. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
31. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A, or EPA method 20. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
32. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation of the turbine, and the fuel consumption and the ratio of water to fuel being fired in the turbine. The system shall be accurate to within + 5% and shall be approved by the administrator. [40 CFR 60.334(a) and (g)] Federally Enforceable Through Title V Permit
33. The steam or water to fuel ratio or other parameters that are continuously monitored, shall be monitored during the performance test required under <sup>1</sup> 60.8, to establish acceptable values and ranges. The owner or operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. The owner or operator shall develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NO<sub>x</sub> emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan. [40 CFR 60.334(g) and 60.7(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO<sub>x</sub> emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
35. The continuous monitor of fuel, water, and water-to-fuel ratio system shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the NO<sub>x</sub> emission limits at 30, 50, 75, and 100% of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer. [District Rule 4703, 5.1 and 6.2.5; 40 CFR 60.344(g), (j)(1), 335(b) and (c) and 40 CFR 60.13(a)] Federally Enforceable Through Title V Permit
36. The owner shall maintain a stationary gas turbine system operating log that includes: the actual local start-up and stop time; length and reason for reduced load periods; total hours of operation on each fuel, and type and quantity of each fuel used. These records shall be updated daily. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
37. The owner shall maintain a log that shows the following: (a). The combined daily NO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2; (b). The combined daily PM<sub>10</sub> emissions from permit units N-2246-1 and N-2246-2; (c). The cumulative quarterly NO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2; (d) The cumulative annual PM<sub>10</sub> emissions from this permit unit (N-2246-1). This log shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
38. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
39. The owner or operator shall determine compliance with the sulfur content standard using the following methods: ASTM D129, D2622, D4294, D1266, D5453, D1552, D4084, D5504, D6228, or Gas Processors Association Standard 2377. [40 CFR 60.334(h)(1) or 40 CFR 60.335(d)(10)] 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.

40. Transitional Operation Period shall be defined as any of the following periods: bypass transition period, primary re-ignition period, reduced load period, start-up or shutdown. [District Rule 4703, 3.33] Federally Enforceable Through Title V Permit
41. Start-up shall be defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. [District Rule 4703, 3.29] Federally Enforceable Through Title V Permit
42. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rule 4703, 3.26] Federally Enforceable Through Title V Permit
43. The duration of each startup or shutdown shall not exceed two hours. [District Rule 4703, 5.3.3.1] Federally Enforceable Through Title V Permit
44. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during each transitional operation period. [District Rule 4703, 5.3.2] 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-2246-8-2

**EXPIRATION DATE:** 09/30/2015

**EQUIPMENT DESCRIPTION:**

170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall only be fired on LPG or propane. [District NSR Rule] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-selective catalyst installed on the exhaust stack [District NSR Rule] Federally Enforceable Through Title V Permit
4. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use an alternative device, method, or technique in determining monthly fuel consumption provided that the alternative is approved by the APCO. The owner or operator shall maintain these required meters in proper operating condition. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District NSR Rule, and 4702] Federally Enforceable Through Title V Permit
5. Emissions from the engine shall not exceed any of the following limits: 2.3 g-NOx/hp hr, 0.064 g-PM10/hp hr, 15.3 g-CO/hp hr, 0.54 g-VOC/hp hr, or 0.0164 lb-SOx/MMBtu. [District NSR Rule, District Rule 4801, and Stanislaus County Rule 407] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. 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
8. 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
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. 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] Federally Enforceable Through Title V Permit
12. 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 100 hours per calendar year. [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702] Federally Enforceable Through Title V Permit
14. 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] 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-2246-9-2

**EXPIRATION DATE:** 09/30/2015

**EQUIPMENT DESCRIPTION:**

170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY JOHNSON MATTHEY'S MODEL BANDITO NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, 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. The exhaust stack shall have a flapper-type rain cap and shall vent vertically upward. The vertical exhaust flow shall not be impeded by roof overhang or any other obstruction. [District Rule 4102]
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with either a positive crankcase ventilation system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions from the exhaust of the NSCR system shall not exceed 0.5 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. SOx emissions from the exhaust of the NSCR system shall not exceed 0.067 g/bhp-hr. [District Rule 2201, 4801, and Stanislaus County Rule 407] Federally Enforceable Through Title V Permit
7. PM10 emissions from the exhaust of the NSCR system shall not exceed 0.076 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. CO emissions from the exhaust of the NSCR system shall not exceed 1.7 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions from the exhaust of the NSCR system shall not exceed 0.1 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



13. 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
14. 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] Federally Enforceable Through Title V Permit
15. 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 100 hours per calendar year. [District Rule 4702] Federally Enforceable Through Title V Permit
16. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702] Federally Enforceable Through Title V Permit
17. 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] Federally Enforceable Through Title V Permit

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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# Permit to Operate

**FACILITY:** N-2246

**EXPIRATION DATE:** 09/30/2009

**LEGAL OWNER OR OPERATOR:** TURLOCK IRRIGATION DISTRICT  
**MAILING ADDRESS:** 333 CANAL DR  
TURLOCK, CA 95380

**FACILITY LOCATION:** 325 WASHINGTON ROAD  
TURLOCK, CA 95380

**FACILITY DESCRIPTION:** POWER GENERATION FACILITY

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

**Seyed Sadredin**

Executive Director / APCO

**David Warner**

Director of Permit Services

# San Joaquin Valley Air Pollution Control District

FACILITY: N-2246-0-1

EXPIRATION DATE: 09/30/2009

## 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, 6.1; 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, 7.0; 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, 5.0] 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 (3/21/02). [District Rule 2010, 3.0 and 4.0; 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, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] 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, 9.4.1] 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, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: TURLOCK IRRIGATION DISTRICT  
Location: 325 WASHINGTON ROAD, TURLOCK, CA 95380  
N-2246-0-1, May 26 2011 1:31PM -- GONZALEV

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, 9.5.1] 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, 9.5.2 and 1100, 7.0] 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, 9.7] 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, 9.8.2] 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, 9.8.3] 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, 9.8.4] 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, 9.8.5] 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, 9.9] Federally Enforceable Through Title V Permit
18. 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. 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. 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. 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
22. 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 (11/15/01). 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; Stanislaus County Rule 401] 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.

23. 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 the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. 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. 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 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. 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 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit.
31. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. 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.

36. 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. 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. 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. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Stanislaus Rules 401 and 110. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. 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 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. On October 31, 2004, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. The NO<sub>x</sub> emissions from this stationary source shall be less than 50 tons during any one year. [District Rule 2080] Federally Enforceable Through Title V Permit
44. The CO emissions from this stationary source shall be less than 100 tons during any one year. [District Rule 2080] Federally Enforceable Through Title V Permit
45. The SO<sub>x</sub> emissions from this stationary source shall be less than 70 tons during any one year. [District Rule 2080] Federally Enforceable Through Title V Permit
46. In the event of a natural gas shortage, SO<sub>x</sub> emissions from this stationary source shall not exceed 5,950 pounds during any one month. [District NSR Rule] Federally Enforceable Through Title V Permit
47. The NO<sub>x</sub> emissions from this stationary source shall not exceed 1,020 pounds during any one day and shall not exceed 25,551 pounds during any one calendar quarter. [District NSR Rule] Federally Enforceable Through Title V Permit
48. The Particulate emissions from this stationary source shall not exceed 150 pounds during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
49. Maintain a log that shows the daily and cumulative quarterly NO<sub>x</sub> emissions. [District NSR Rule] 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-2246-1-7

**EXPIRATION DATE:** 09/30/2009

**EQUIPMENT DESCRIPTION:**

TURBINE/GENERATOR SET #1, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361, NATURAL GAS/FUEL OIL #2 FIRED

## PERMIT UNIT REQUIREMENTS

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1. This unit is subject to the requirements of 40 CFR Part 60, Subpart GG: Standards of Performance for Stationary Gas Turbines. [District Rule 4001] Federally Enforceable Through Title V Permit
2. The owner shall monitor operational characteristics recommended by the turbine manufacturer or emission control system supplier. [District Rule 4703] Federally Enforceable Through Title V Permit
3. This unit shall be fired on only natural gas or fuel oil #2. The primary fuel shall be natural gas; fuel oil #2 shall be used as a backup fuel only in the event of a natural gas shortage. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This unit shall be fired only on natural gas with a sulfur content not exceeding 1.0 grain of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas. If this is fired on PUC-regulated natural gas, compliance with this sulfur content limit may be demonstrated with fuel receipts. [District Rule 2201] Federally Enforceable Through Title V Permit
5. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until compliance is demonstrated for eight consecutive weeks. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall be less than 0.05 percent by weight. [District Rule 4703 and 4801] Federally Enforceable Through Title V Permit
7. The sulfur content of the fuel oil shall be determined each time fuel is transferred into the on-site storage tank. [40 CFR 60.334(b)(1)] Federally Enforceable Through Title V Permit
8. The operation of this unit shall not exceed 877 hours during any one year. [District Rule 4703] Federally Enforceable Through Title V Permit
9. When firing on natural gas, NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 25.0 ppmvd @ 15% O<sub>2</sub>, except during transitional operation period as defined in District Rule 4703 (as amended September 20, 2007). Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
10. When firing on fuel oil, the NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 42.0 ppmvd @ 15% O<sub>2</sub> and 51 lb/hr, except during transitional operation period as defined in District Rule 4703 (as amended September 20, 2007). Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. The NOx emission concentration shall not exceed 42 ppmvd @ 15% O2 except for transitional operation period, as defined in Rule 4703 (as amended September 20, 2007), and the NOx emission rate shall not exceed 51 pounds in any one hour. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
12. The combined NOx emissions from permit units N-2246-1 and N-2246-2 shall not exceed 1,020 lb/day and shall not exceed 25,551 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
13. When firing on either natural gas or fuel oil, CO emissions shall not exceed 200 ppmvd @ 15% O2, except during transitional operation period as defined in District Rule 4703 (as amended September 20, 2007). Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
14. The cumulative annual CO emissions from permit units N-2246-1 and N-2246-2 shall be less than 200,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
15. When firing on either natural gas or fuel oil, VOC emissions shall not exceed 15.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
17. When firing on natural gas, PM10 emissions shall not exceed 8.60 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When firing on fuel oil, PM10 emissions shall not exceed 20.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The combined PM10 emissions from permit units N-2246-1 and N-2246-2 shall not exceed 150 pounds during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The annual PM10 emissions shall not exceed 7,016 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
21. When firing on natural gas, SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
22. When firing on fuel oil, SOx emissions shall not exceed 16.37 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
23. In the event of a natural gas shortage, SOx emissions from permit units N-2246-1 and N-2246-2 shall not exceed 5,950 pounds during any one month. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Source testing to demonstrate ongoing compliance with the NOx and CO emission limits for natural gas fuel shall be conducted at least once per 24-month period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. Source testing to demonstrate compliance with the NOx and CO emission limits for fuel oil shall be conducted within 30 days of operation on that fuel, unless the unit successfully demonstrated compliance with the NOx and CO emission limits for fuel oil within the previous 24 months. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
26. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

28. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO<sub>x</sub>, CO, and O<sub>2</sub> analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
29. NO<sub>x</sub> emissions (referenced as NO<sub>2</sub>) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. [District Rules 1081, 4001, and 4703] Federally Enforceable Through Title V Permit
30. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
31. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A, or EPA method 20. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
32. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation of the turbine, and the fuel consumption and the ratio of water to fuel being fired in the turbine. The system shall be accurate to within + 5% and shall be approved by the administrator. [40 CFR 60.334(a) and (g)] Federally Enforceable Through Title V Permit
33. The steam or water to fuel ratio or other parameters that are continuously monitored, shall be monitored during the performance test required under <sup>1</sup> 60.8, to establish acceptable values and ranges. The owner or operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. The owner or operator shall develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NO<sub>x</sub> emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan. [40 CFR 60.334(g) and 60.7(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO<sub>x</sub> emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(h) and (i)] Federally Enforceable Through Title V Permit
35. The continuous monitor of fuel, water, and water-to-fuel ratio system shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the NO<sub>x</sub> emission limits at 30, 50, 75, and 100% of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer. [District Rule 4703, 5.1 and 6.2.5; 40 CFR 60.344(g), (h) and (i), 335(b) and (c) and 40 CFR 60.13(a)] Federally Enforceable Through Title V Permit
36. The owner shall maintain a stationary gas turbine system operating log that includes: the actual local start-up and stop time; length and reason for reduced load periods; total hours of operation on each fuel, and type and quantity of each fuel used. These records shall be updated daily. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
37. The owner shall maintain a log that shows the following: (a). The combined daily NO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2; (b). The combined daily PM<sub>10</sub> emissions from permit units N-2246-1 and N-2246-2; (c). The cumulative quarterly NO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2; (d) The cumulative annual PM<sub>10</sub> emissions from this permit unit (N-2246-1). This log shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
38. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4703] 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-2246-2-7

**EXPIRATION DATE:** 09/30/2009

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF: TURBINE/GENERATOR SET #2, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361

## PERMIT UNIT REQUIREMENTS

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1. This unit is subject to the requirements of 40 CFR Part 60, Subpart GG: Standards of Performance for Stationary Gas Turbines. [District Rule 4001] Federally Enforceable Through Title V Permit
2. The owner shall monitor operational characteristics recommended by the turbine manufacturer or emission control system supplier. [District Rule 4703] Federally Enforceable Through Title V Permit
3. This unit shall be fired on only natural gas or fuel oil #2. The primary fuel shall be natural gas; fuel oil #2 shall be used as a backup fuel only in the event of a natural gas shortage. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This unit shall be fired only on natural gas with a sulfur content not exceeding 1.0 grain of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas. If this is fired on PUC-regulated natural gas, compliance with this sulfur content limit may be demonstrated with fuel receipts. [District Rule 2201] Federally Enforceable Through Title V Permit
5. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until compliance is demonstrated for eight consecutive weeks. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall be less than 0.05 percent by weight. [District Rule 4703 and 4801] Federally Enforceable Through Title V Permit
7. The sulfur content of the fuel oil shall be determined each time fuel is transferred into the on-site storage tank. [40 CFR 60.334(b)(1)] Federally Enforceable Through Title V Permit
8. The operation of this unit shall not exceed 877 hours during any one year. [District Rule 4703] Federally Enforceable Through Title V Permit
9. When firing on natural gas, NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 25.0 ppmvd @ 15% O<sub>2</sub>, except during transitional operation period as defined in District Rule 4703 (as amended September 20, 2007). Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
10. When firing on fuel oil, the NO<sub>x</sub> (referenced as NO<sub>2</sub>) emissions shall not exceed 42.0 ppmvd @ 15% O<sub>2</sub> and 51 lb/hr, except during transitional operation period as defined in District Rule 4703 (as amended September 20, 2007). Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
11. The NO<sub>x</sub> emission concentration shall not exceed 42 ppmvd @ 15% O<sub>2</sub> except during transitional operation period as defined in District Rule 4703 (as amended September 20, 2007), and the NO<sub>x</sub> emission rate shall not exceed 51 pounds in any one hour. [District Rules 2201 and 4703] 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 combined NO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2 shall not exceed 1,020 lb/day and shall not exceed 25,551 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
13. When firing on either natural gas or fuel oil, CO emissions shall not exceed 200 ppmvd @ 15% O<sub>2</sub>, except during transitional operation period as defined in District Rule 4703 (as amended September 20, 2007) as defined in District Rule 4703. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
14. The cumulative annual CO emissions from permit units N-2246-1 and N-2246-2 shall be less than 200,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
15. When firing on either natural gas or fuel oil, VOC emissions shall not exceed 15.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
17. When firing on natural gas, PM<sub>10</sub> emissions shall not exceed 8.60 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. When firing on fuel oil, PM<sub>10</sub> emissions shall not exceed 20.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The combined PM<sub>10</sub> emissions from permit units N-2246-1 and N-2246-2 shall not exceed 150 pounds during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The annual PM<sub>10</sub> emissions shall not exceed 7,016 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
21. When firing on natural gas, SO<sub>x</sub> emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
22. When firing on fuel oil, SO<sub>x</sub> emissions shall not exceed 16.37 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
23. In the event of a natural gas shortage, SO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2 shall not exceed 5,950 pounds during any one month. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Source testing to demonstrate ongoing compliance with the NO<sub>x</sub> and CO emission limits for natural gas fuel shall be conducted at least once per 24-month period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. Source testing to demonstrate compliance with the NO<sub>x</sub> and CO emission limits for fuel oil shall be conducted within 30 days of operation on that fuel, unless the unit successfully demonstrated compliance with the NO<sub>x</sub> and CO emission limits for fuel oil within the previous 24 months. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
26. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO<sub>x</sub>, CO, and O<sub>2</sub> analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] 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.

29. NO<sub>x</sub> emissions (referenced as NO<sub>2</sub>) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. [District Rules 1081, 4001, and 4703] Federally Enforceable Through Title V Permit
30. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
31. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A, or EPA method 20. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
32. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation of the turbine, and the fuel consumption and the ratio of water to fuel being fired in the turbine. The system shall be accurate to within + 5% and shall be approved by the administrator. [40 CFR 60.334(a) and (g)] Federally Enforceable Through Title V Permit
33. The steam or water to fuel ratio or other parameters that are continuously monitored, shall be monitored during the performance test required under <sup>1</sup> 60.8, to establish acceptable values and ranges. The owner or operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. The owner or operator shall develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NO<sub>x</sub> emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan. [40 CFR 60.334(g) and 60.7(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO<sub>x</sub> emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(h) and (i)] Federally Enforceable Through Title V Permit
35. The continuous monitor of fuel, water, and water-to-fuel ratio system shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the NO<sub>x</sub> emission limits at 30, 50, 75, and 100% of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer. [District Rule 4703, 5.1 and 6.2.5; 40 CFR 60.344(g), (h) and (i), 335(b) and (c) and 40 CFR 60.13(a)] Federally Enforceable Through Title V Permit
36. The owner shall maintain a stationary gas turbine system operating log that includes: the actual local start-up and stop time; length and reason for reduced load periods; total hours of operation on each fuel, and type and quantity of each fuel used. These records shall be updated daily. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
37. The owner shall maintain a log that shows the following: (a). The combined daily NO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2; (b). The combined daily PM<sub>10</sub> emissions from permit units N-2246-1 and N-2246-2; (c). The cumulative quarterly NO<sub>x</sub> emissions from permit units N-2246-1 and N-2246-2; (d) The cumulative annual PM<sub>10</sub> emissions from this permit unit (N-2246-1). This log shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
38. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-2246-8-1

**EXPIRATION DATE:** 09/30/2009

**EQUIPMENT DESCRIPTION:**

170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. This engine shall only be fired on LPG or propane. [District NSR Rule] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-selective catalyst installed on the exhaust stack [District NSR Rule] Federally Enforceable Through Title V Permit
4. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use an alternative device, method, or technique in determining monthly fuel consumption provided that the alternative is approved by the APCO. The owner or operator shall maintain these required meters in proper operating condition. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
5. This engine shall be operated only for maintenance and testing purposes shall not exceed 100 hours per year, as determined by an operational nonresettable elapsed operating time meter. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
6. Emissions from the engine shall not exceed any of the following limits: 2.3 g-NOx/hp hr, 0.064 g-PM10/hp hr, 15.3 g-CO/hp hr, 0.54 g-VOC/hp hr, or 0.0164 lb-SOx/MMBtu. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, and the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.). Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 1070 and 2520, 9.3.2] 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-2246-9-1

**EXPIRATION DATE:** 09/30/2009

**EQUIPMENT DESCRIPTION:**

170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY CLEAN AIR SYSTEMS (CQD1050BCCN40) NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, 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. The exhaust stack shall have a flapper-type rain cap and shall vent vertically upward. The vertical exhaust flow shall not be impeded by roof overhang or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with either a positive crankcase ventilation system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NO<sub>x</sub> emissions from the exhaust of the NSCR system shall not exceed 0.5 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. SO<sub>x</sub> emissions from the exhaust of the NSCR system shall not exceed 0.067 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. PM<sub>10</sub> emissions from the exhaust of the NSCR system shall not exceed 0.076 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. CO emissions from the exhaust of the NSCR system shall not exceed 1.7 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions from the exhaust of the NSCR system shall not exceed 0.1 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The engine shall be operated only for maintenance, testing, and 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 Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit
11. The engine shall be operated and maintained as recommended by the engine manufacturer. [District Rule 4702] Federally Enforceable Through Title V Permit
12. During periods of maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics (e.g. oil pressure, exhaust gas temperature, etc.) of the engine as recommended by the manufacturer. [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 records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.), and type of fuel used. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201, 4701 and 4702]  
Federally Enforceable Through Title V Permit

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



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# ATTACHMENT C

Detailed Facility List

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**Detailed Facility Report**  
For Facility=2246 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>TURLOCK IRRIGATION DISTRICT</b> <b>325 WASHINGTON ROAD</b> <b>TURLOCK, CA 95380</b>	<b>FAC #</b> <b>STATUS:</b> <b>TELEPHONE:</b>	<b>N 2246</b> <b>A</b> <b>2098838300</b>	<b>TYPE:</b> <b>TOXIC ID:</b>	<b>TitleV</b> <b>51653</b>	<b>EXPIRE ON:</b> <b>AREA:</b> <b>INSP. DATE:</b>	<b>09/30/2009</b> <b>15 /</b> <b>05/12</b>
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-2246-1-7	25,800 kW	3020-08A F	1	8,171.00	8,171.00	A	TURBINE/GENERATOR SET #1, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361, NATURAL GAS/FUEL OIL #2 FIRED
N-2246-2-7	25,800 kW	3020-08A F	1	8,171.00	8,171.00	A	MODIFICATION OF: TURBINE/GENERATOR SET #2, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361
N-2246-8-1	170 hp IC engine	3020-10 B	1	117.00	117.00	A	170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR
N-2246-9-1	170 bhp IC engine	3020-10 B	1	117.00	117.00	A	170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY CLEAN AIR SYSTEMS (CQD1050BCCN40) NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, POWERING AN ELECTRIC GENERATOR

Number of Facilities Reported: 1

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# ATTACHMENT D

Facility Comments and District Response

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## **Facility Comments/District Response**

Turlock Irrigation District (TID) submitted comments on April 11, 2011 in response to the Districts Preliminary Decision on TID's Walnut Power Plant (WPP) Title V Renewal Evaluation. The letter received with the comments is available at the District.

### **N-2246-0-2**

#### **Comment #1**

Rule 2201 (New Source Review) – Conditions #38 of ATCs #N-2246-1-4 and N-2246-2-4 specified that Facilities N-2246 and N-7172 are included in the same stationary source. These conditions were implemented as a result of the WEC project. However, these conditions were deleted when the PTOs for the WEC project were implemented. The District should re-insert this requirement into the Facility-Wide Requirements so there is no confusion in the future regarding the stationary source boundaries for these facilities.

#### **District Response**

The following condition will be added to Permit N-2246-0-2 as condition 43.

*"Facilities N-2246 and N-7172 are included in the same stationary source. [District Rule 2201]"*

#### **Comment #2**

40 CFR 98 – The requirements of 40 CFR 98 are missing from the draft PTO. USEPA promulgated 40 CFR 98 (Federal GHG Reporting Rule) in October 2009 after TID had submitted its Title V renewal application. WPP is subject to the requirements of 40 CFR 98 because the District treats WPP and the WEC (N-7172) as a single stationary source and WEC is subject to the requirements of 40 CFR 98 as an affected facility under the ACID Rain Program.

#### **District Response**

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, no conditions will be added to the N-2246-0-2 permit for 40 CFR 98

**N-2246-1-6**

**Comment #3**

Condition #1 is a blanket condition that is redundant with specific requirements already contained in the permit or identified in these comments. This blanket condition specifies that Unit 1 is subject to the requirements of 40 CFR 60, Subpart GG. Condition #1 should be deleted from the draft permit.

**District Response**

Condition #1 will be removed from Permit N-2246-1-6.

**Comment #4**

Condition #8 should be revised to include the current requirements of Section 5.1.3 of Rule 4703 (Gas Turbines), as follows (in redline/strikeout format)

*8. The operation of this unit shall not exceed 200 hours during any calendar year. Operations during ISO- declared or TID- declared emergencies shall not count against the 200 hr/yr operating limit. Total ~~The operation of this unit, excluding states of emergency declared by proclamation of the Governor when the units is located in the specific geographic location identified in the proclamation, shall not exceed 877 hours during anyone calendar year.~~*

**District Response**

A modification is defined in District Rule 2201, Section 3.24 as an action including at least one of the following items:

- Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
- An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- Addition of any new emissions unit which is subject to District permitting requirements.
- A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

A reconstructed Stationary Source shall be treated as a new Stationary Source and not as a modification.

Unless previously limited by a permit condition, the following shall not be considered a modification:

- A change in ownership of an existing emissions unit with valid Permit to Operate provided that the APCO determines that all applicable offset provisions required by the Permit to Operate will be met;
- A change in ownership of an entire existing Stationary Source with a valid Permit to Operate;
- A change which consists solely of a transfer of location of an emissions unit within a Stationary Source; or
- Routine replacement of a whole or partial emissions unit where the replacement part is the same as the original emissions unit in all respects except for the serial number.

Therefore, the proposed modification to permit condition #8 constitutes an NSR modification. An Authority to Construct is required to carry out this modification.

#### **Comment #5**

Condition #27 should be revised to include the requirements of Section 7.2 of Rule 1081 (Source Sampling) and 40 CFR 60.4(a), as follows (in redline/strikeout format):

*27. Source testing shall be witnessed or authorized by District personnel. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]*

#### **District Response**

Condition 27 will be revised as proposed.

#### **Comment #6**

Condition #39 is a revised condition from the prior permit (N-2246-1-5) in effect when the Title V Renewal Application was submitted (but was omitted from the current permit [N-2246-1-7]). This condition specifies test methods to be used in measuring fuel sulfur contents. The previous condition required testing only if PUC-regulated natural gas or CARB certified #2 diesel fuels were not burned. Also, note that ASTM Method D1266 is not specified in 40 CFR 75, Appendix D, Section 2.2.5 as an allowed method for determining sulfur content of fuel oil. TID request that Condition #39 be revised as follows (changes in redline/strikethrough format):

~~39. The owner or operator shall determine compliance with the sulfur content standard using the following methods: If this unit is not fired on CARB-Certified #2 diesel fuel oil, then the sulfur content shall be determined using the following methods ASTM D129, D2622, D4294, D1266, D5453, D1552. If this unit is not fired on PUC-regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using the following methods: D4084, D5504, D6228, or Gas Processors Association Standard 2377. [40 CFR 60.334(h)(1) or 40 CFR 60.335(d)(10)]~~

### **District Response**

Condition 39 will be revised as proposed.

### **Comment #7**

Rule 4703 – The requirements of Rule 4703 listed below are missing from the draft Title v renewal permit.

- Section 5.1.3.3.2 specifies the fee calculation for ISO-declared or TID-declared emergency operation not counted against the 200 hr/year operating limit. The District should add the following new condition:

No later than April 1 each year, the owner shall pay a fee to the District, calculated in accordance with Section 5.1.3.3.2 of Rule 4703, for operations during an ISO – declared or TID – declared emergency not being counted towards the 200 hr/year operating limit. [Rule 4703, 5.1.3.3.2]

- Section 6.2.9 specifies the recordkeeping requirements associated with ISO-declared or TID-Declared emergency operation not counted against the 200 hr/yr operating limit. The District should add the following new condition:

The owner shall maintain a log that identifies the date, start time, and end time of ISO-declared or TID-declared emergency operation; and a copy of the information used to determine the applicable annual emission Fee for ISO-declared or TID-declared emergency operation not counted against the 200 hr/yr operating limit. [Rule 4703, 6.2.9]

### **District Response:**

As discussed in the Districts Response to Comment #4, adding the 200 hr/year operating limit to the permit requires an Authority to Construct. Therefore, the proposed conditions will not be added to the permit through the Renewal process.

**N-2246-2-6**

**Comment #8**

Same comments for Unit 1 apply to Unit 2.

**District Response**

Comments #3 through #7 will be addressed accordingly for this permit unit.

**N-2246-8-2**

**Comment #9**

40CFR 60, Subpart ZZZZ – USAEPA promulgated the RICE NESHAP for existing SI engines at area sources in August 2010, after TID had submitted its Title V renewal application. The District's Permit Renewal Evaluation incorrectly concluded that Subpart ZZZZ does not apply to this permit unit. The area source requirements of Subpart ZZZZ for emergency SI RICE are missing from the draft PTO, including several sections,

- 63.6603(a) Operating limits specified in Table 2d, Item 5- These are new requirements not contained in the draft PTO. See suggested Condition #15.
- 63.6605(b) Operating and maintenance requirements – This condition is redundant with Condition #7. Add this citation to condition #7.
- 63.6625(e) Operation and maintenance requirement – This requirement is redundant with Condition #7. Add this citation to condition #7.
- 63.6625(f) Install non-resettable hour meter – the requirement is redundant with Condition #4. Add this citation to Condition #4.
- 63.6625(h) Startup requirement – this is a new requirement not contained in draft PTO. See suggested Condition #16.
- 63.6640(f) Operating hour limits – these are new requirements not contained in the draft PTO. The can be incorporated into condition #12.

*Condition #15 – The owner shall comply with the following operation limitations:*

- *Change oil and filter every 500 hrs of operation or annually whichever comes first;*
- *Inspect spark plugs every 1,000 hours of operation or annually whichever comes first; and*
- *Inspect all hoses and belts every 500 hours of operation or annually whichever comes first and replace as necessary. [40 CFR Part 63.6603(a)]*



*Condition #16 – The owner shall 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 63.6635(f)]*

*Condition #17 – The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirements of Condition #15. The oil analysis must be performed every 500 hours of operation or annually whichever comes first. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limit for the parameters are as follows” Total Base Number is less than 30 percent of the Total Base Number of oil when new; 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. In any of the limits are exceeded, the engine owner or operator must change the oil before continuing to use the engine. 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 63.6625(i)]*

### **District Response**

The District concurs that unit N-2246-8-2 is not exempt from 40 CFR 63 Subpart ZZZZ. The rule reference will be updated on conditions 7 and 12 to reflect the corresponding section from 40 CFR 63 Subpart ZZZZ as proposed. In addition the rule reference will also be updated for conditions 11 and 14 to reference corresponding 40 CFR 63 Subpart ZZZZ. The District will add the 3 proposed conditions on the permit to ensure full compliance with this Subpart. In addition the discussion for 40 CFR 63 Subpart ZZZ in the Title V Renewal Evaluation has been updated to incorporate the above changes. The revised section is as follows;

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

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

Per section 63.6585 a facility is subject to this subpart if they 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.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

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

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

This facility is an area source of HAP emissions and has two stationary RICE that may be subject to this subpart, units N-2246-8 and -9.

Section 63.6590 list what parts of a plant are covered by this subpart.

(a) *Affected source.* 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.

(3) *Reconstructed 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 reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced 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 reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(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.

(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.

(2) A new or reconstructed stationary RICE with a site rating of more than 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 must meet the initial notification requirements of §63.6645(f) and the requirements of §§63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.

(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:

(i) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(vi) Existing residential emergency stationary RICE located at an area source of HAP emissions;

(vii) Existing commercial emergency stationary RICE located at an area source of HAP emissions; or

(viii) Existing institutional emergency stationary RICE located at an area source of HAP emissions.

(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.

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

This unit was not constructed, modified or reconstructed after June 12, 2006 and is therefore considered existing emergency stationary RICE.

- b. N-2246-9-2: 170 HP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY INTERNAL COMBUSTION ENGINE, SERVED BY JOHNSON MATTHEY'S MODEL BANDITO NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM, POWERING AN ELECTRIC GENERATOR

This unit was constructed after June 12, 2006 and is therefore considered new emergency stationary RICE. Per section 63.6950(c)(1) A new or reconstructed stationary RICE located at an area source 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. Therefore, this unit meets the requirements of this subpart by meeting the requirements of 40 CFR part 60 subpart JJJJ as discussed previously.

*Section 63.6595 contains the date in which an affected source is required to be in compliance with the emissions and operating limitations.*

*Per Section 63.6595(a)(1) if you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI 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 CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013.*

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

*This unit is required to be in compliance with this rule by May 3, 2013. The facility has proposed to bring this unit in compliance with this rule during this permit renewal.*

*Section 63.6600 contains the emission limitations and operating limitations for owners or operators of a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.*

*Section 63.6601 contains the limitations for owners or operators of a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than or equal to 500 brake HP located at a major source of HAP emissions. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.*

*Section 63.6602 contains the emission limitations an owner or operator of 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. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.*

*Section 63.6603 contains the emission limitations and operating limitations for owners or operators with an existing stationary RICE located at an area source of HAP emissions. 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.*

*(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart which apply to you.*

*(b) If you own or operate an existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the Federal Aid Highway System (FAHS) you do not have to meet the numerical CO emission limitations specified in Table 2d to this subpart. Existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the FAHS must meet the management practices that are shown for stationary non-emergency CI RICE less than or equal to 300 HP in Table 2d to this subpart.*

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*This unit is subject to the requirements of Table 2d "Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions". Category 5 of Table 2d applies to emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. Engines subject to Table 2d, Category 5 are required to:*

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;<sup>1</sup>*
- b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and*
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.*

*Condition 15 was added to the requirements for this unit will ensure compliance with this subsection.*

*Section 63.6604 contains the fuel requirements for the owner or operator of an existing non-emergency, non-black start CI stationary RICE. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further. This section does not apply to any permit units at this facility. Therefore, this section will not be discussed any further.*

*Per Section 63.6605, the general requirements for complying with this subpart are as follows.*

*(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.*

*(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation*



*and maintenance procedures, review of operation and maintenance records, and inspection of the source.*

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*Condition 7 of the requirements for this unit will ensure compliance with this subsection.*

*Sections 63.6610 through Section 63.6620 do not apply to any permit units at this facility. Therefore, this section will not be discussed any further.*

*Section 63.6625 contains monitoring, installation, collection, operation, and maintenance requirements.*

*Subsection (a) applies to units that elect to install a CEMS as specified in Table 5 of this subpart. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.*

*Subsection (b) applies to unit required to install a continuous parameter monitoring system (CPMS). None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.*

*Subsection (c) applies to new or reconstructed stationary. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.*

*Subsection (d) applies to a new or reconstructed emergency 4SLB stationary RICE. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.*

*Per subsection (e) If you own or operate any of the following stationary RICE, 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:*

- (1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;*

- (2) *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;*
- (3) *An existing emergency or black start stationary RICE located at an area source of HAP emissions;*
- (4) *An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;*
- (5) *An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions;*
- (6) *An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions;*
- (7) *An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;*
- (8) *An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;*
- (9) *An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and*
- (10) *An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.*

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*Condition 7 of the requirements for this unit will ensure compliance with this subsection.*

*Per Subsection (f) 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.*

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

*Condition 4 of the requirements for this unit will ensure compliance with this subsection.*

*Subsection (g) applies to existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system. None of the units at this source are subject to this subsection therefore, there will be no further discussion of this subsection.*

*Per Subsection (h) the owner or operator of a new, reconstructed, or existing stationary engine, 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.*

- a. N-2246-8-2: 170 HP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY IC ENGINE WITH 3-WAY CATALYST POWERING A 110 KW ELECTRICAL GENERATOR

*Condition 16 was added to the requirements for this unit will ensure compliance with this subsection.*

*Per Subsection (i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. Since none of the units at this source are subject to the table and categories listed above no further discussion of this subsection is required.*

*Per subsection (j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. 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 Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide*

*(KOH) per gram from Total Acid 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.*

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*Condition 17 of the requirements for this unit will ensure compliance with this subsection.*

*Subsection (k) apply to engines with an operating limitation that requires the use of a temperature measurement device. Since now of the engines at this facility are required to have a temperature measuring device this subsection does not apply and there will be no further discussion.*

*Section 63.6630 contains the requirements for initial source testing to demonstrate compliance with emissions limits. Since there are no emission limits imposed by this Subpart, no initial testing is required. Therefore, this section will not be discussed any further.*

*Section 63.6635 contains the requirements to monitor and collect data to demonstrate continuous compliance. The engines at this facility are not required to monitor and collect data. Therefore, this section will not be discussed any further.*

*Section 63.6640 contains the requirements to demonstrate continuous compliance with the emission limitations and operating limitations.*

*Per subsection (a) an owner or operator must demonstrate continuous compliance with each emission limitation and operating limitation 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.*

*Per subsection (b) an owner or operator 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.*

*(c) [Reserved]*

*Subsection (d) applies to new, reconstructed, and rebuilt stationary RICE. This subsection does not apply to any units at this facility therefore; this section does not apply and will not be discussed any further.*

*Subsection (e) does not apply to an owner or operator of existing emergency stationary RICE. Therefore not further discussion is required.*

*Subsection (f) contains the Requirements for emergency stationary RICE.*

*Per Subsection (1) an owner or operator 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, 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 was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.*

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

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. 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 RICE beyond 100 hours per year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

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*Condition 12 of the requirements for this unit will ensure compliance with this subsection.*

*Subsection (2) applies to owners or operators of an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006. This subsection does not apply to any units at this facility therefore; this section does not apply and will not be discussed any further.*

*Section 63.6645 contains what notifications must be submitted. Per subsection (a)(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. Therefore this subsection will not be discussed any further.*

*Section 63.6650 contains what reports must be submit and when. This facility does not need to submit any reports therefore this section does not apply and no further discussion is required.*

*Section 63.6655 list what records must I keep. Subsections (a) through (e) do not apply to existing emergency stationary RICE at area sources. Therefore they will not be discussed.*

*Per subsection (e) the owner or operator 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.*

*Per subsection (f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (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 engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.*

- (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.*

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*Condition 11 of the requirements for this unit will ensure compliance with this subsection.*

*Per section 63.6660 (a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1). Subsection (b) requires that 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. Per subsection (c) the owner or operator 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).*

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*Condition 14 of the requirements for this unit will ensure compliance with this subsection. "*