



APR 09 2013

Mr. Kevin Rebelo
Morning Star Packing Company
13448 S. Volta Rd.
Los Banos, CA 93635

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # N-1326
Project # N-1121933**

Dear Mr. Rebelo:

Enclosed for your review is the District's analysis of Morning Star Packing Company's application for the Federally Mandated Operating Permit for its operation at 13448 S. Volta Rd, Los Banos, California.

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

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

Sincerely,



David Warner
Director of Permit Services

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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Bakersfield, CA 93308-9725
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**NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED ISSUANCE OF
FEDERALLY MANDATED OPERATING PERMITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of the Federally Mandated Operating permits to Morning Star Packing Company at 13448 S. Volta Rd, Los Banos, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1121933, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and at any District office. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed Federally Mandated Operating initial permits. If requested, the District will hold a public hearing regarding issuance of this initial permit. For additional information, please contact the District at (559) 230-6000. Written comments on the proposed initial permit must be submitted by May 13, 2013 to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.**

**SAN JOAQUIN VALLEY
UNIFIED AIR POLLUTION CONTROL DISTRICT**

MORNING STAR PACKING CO.

PROPOSED ENGINEERING EVALUATION

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**ATTACHMENT A – DETAILED FACILITY PRINTOUT
ATTACHMENT B – EXEMPT EQUIPMENT
ATTACHMENT C – SJVUAPCD PERMITS**

TITLE V APPLICATION REVIEW

Project #: N-1121933
Deemed Complete: July 19, 2012

Engineer: Juscelino Siongco
Date: February 11, 2013

Facility Number: N-1326
Facility Name: Morning Star Packing Company
Mailing Address: 13448 S. Volta Rd
Los Banos, CA 93635

Contact Name: Kevin Rebelo
Phone: (209) 827-7854

Responsible Official: Kevin Rebelo
Title: Steam Generation Colleague

I. PROPOSAL

Morning Star Packing Company is proposing that an initial Title V permit be issued for its agricultural products processing facility at 13448 S. Volta Road, Los Banos, in Merced County, CA. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

II. FACILITY LOCATION

Morning Star Packing Company is located at 13448 S. Volta Road, Los Banos, in Merced County, CA.

III. EQUIPMENT LISTING

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

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

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit templates:

SJV-UM-0-3, Facility-wide Umbrella General Permit Template

The applicant has requested to utilize template #SJV-UM-03, Facility-wide Umbrella General Permit Template for unit N-1326-0-1. Based on the information submitted on the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

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

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

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-1326-0-1.

VI. REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATE

District Rule 1100, Equipment Breakdown (Amended December 17, 1992) (Non-SIP replacement for Stanislaus County Rule 110)

District Rule 1160, Emission Statements (adopted November 18, 1992)

District Rule 2010, Permits Required (Amended December 17, 1992)

District Rule 2020, Exemptions (Amended August 18, 2011)¹

District Rule 2031, Transfer of Permits (Amended December 17, 1992)

District Rule 2040, Applications (Amended December 17, 1992)

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

District Rule 2080, Conditional Approval (Amended December 17, 1992)

¹ The amendments made to this rule on August 18, 2011 have no impact to this source; therefore template SJV-UM-0-3 is still valid for this project.

District Rule 2520, Sections 5.2, 9.1.1, 9.4, 9.5, 9.7, 9.8, 9.9, 9.13.1, 9.13.2, 9.16 and 10.0, Federally Mandated Operating Permits (Amended June 21, 2001)

District Rule 4101, Visible Emissions (Amended February 17, 2005)

District Rule 4601, Architectural Coatings (Amended December 17, 2009)

District Rule 8011, General Requirements (Amended August 19, 2004)

District Rule 8021, Construction, Demolition, Excavation, and Other Earthmoving Activities (Amended August 19, 2004)

District Rule 8031, Bulk Materials (Amended August 19, 2004)

District Rule 8041, Carryout and Trackout (Amended August 19, 2004)

District Rule 8051, Open Areas (Amended August 19, 2004)

District Rule 8061, Paved and Unpaved Roads (Amended August 19, 2004)

District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (Amended September 16, 2004)

40 CFR Part 82, Subpart B and F, Stratospheric Ozone

40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

VII. REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES

District Rule 1070, Inspections (Amended December 17, 1992)

District Rule 1081, Source Sampling (Amended December 16, 1993)

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

District Rule 2410, Prevention of Significant Deterioration (Amended June 16, 2011)

District Rule 2520, Federally Mandate Operating Permits (Amended June 21, 2001)

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

District Rule 4305, Boilers, Steam Generators, and Process Heaters – Phase 2 (Amended August 21, 2003)

District Rule 4306, Boilers, Steam Generators, and Process Heaters – Phase 3 (Amended October 16, 2008)

District Rule 4320, Advanced Emission Reduction Option for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr (Adopted October 16, 2008)

District Rule 4701, Internal Combustion Engines – Phase 1 (Amended August 21, 2003)

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

40 CFR Part 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

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

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

40 CFR Part 64, Compliance Assurance Monitoring (CAM)

VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

This facility is subject to the following rules that are not currently federally enforceable:

District Rule 4102, Nuisance

N-1326-0-1: Facility-Wide Requirements

- Condition 41 on the proposed permit is based on this rule.

District Rule 4801, Sulfur Compounds

a. N-1326-5-1: 244 Bhp Cummins Model 6BTA-5.9 Diesel-Fired Emergency IC Engine Powering a Firewater Pump

- Condition 5 on the proposed permit is based on this rule.

b. N-1326-14-1: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

- Condition 6 on the proposed permit is based on this rule.

Title 17 CCR, Section 93115, Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines

- a. N-1326-5-1: 244 Bhp Cummins Model 6BTA-5.9 Diesel-Fired Emergency IC Engine Powering a Firewater Pump
 - Conditions 4, 5, 6, 8, 9, and 10 on the requirements for this permit unit are based on this rule.
- b. N-1326-14-1: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
 - Conditions 4, 5, 6, 7, 10, 13, 14, and 15 on the requirements for this permit unit are based on this rule.

IX. COMPLIANCE

A. Requirements Addressed by Model General Permit Templates

1. Facility Wide Requirements

The applicant is proposing to use a general permit template to address federally applicable facility-wide requirements. Section IV of template SJV-UM-0-3 includes a demonstration of compliance for all applicable requirements. Template conditions have been added to N-1326-0-1, Facility Wide Requirements, as condition numbers 1 through 40 to assure compliance with these requirements.

B. Requirements Not Addressed by Model General Permit Templates

1. District Rule 1070, Inspections

The purpose of this rule is to explain the District's authority in determining compliance with the requirements of these rules and regulations. District Rule 1070 has been submitted to the EPA to replace Merced County Rule 107 that is in the State Implementation Plan (SIP). District Rule 1070 is at least as stringent as Merced County 107 as shown in the following comparison:

Comparison of District Rule 1070 to Merced County Rule 107

REQUIREMENTS	District Rule 1070	Merced Rule 107
Inspections shall be made by the enforcement agency for the purpose of obtaining information necessary to determine whether air pollution sources are in compliance with applicable rules and regulations.	X	X
The District also has the authority to require record keeping, to make inspections and to conduct tests of air pollution sources.	X	X

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System
 - Condition 28 on the requirements for this permit unit assures compliance with this rule.

- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner with an Induced Flue Gas Recirculation System
 - Condition 28 on the requirements for this permit unit assures compliance with this rule.

- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NOx Burner and a Flue Gas Recirculation System
 - Condition 28 on the requirements for this permit unit assures compliance with this rule.

- d. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
 - Condition 28 on the requirements for this permit unit assures compliance with this rule.

- e. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NOx Burner

- Condition 29 on the requirements for this permit unit assures compliance with this rule.
- f. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
- Condition 25 on the requirements for this permit unit assures compliance with this rule.
- g. N-1326-13-1: 8.4 MMBtu/hr Hurst Model #SA-G-200-200 Natural Gas-Fired Boiler with an Industrial Combustion Model #LNDG-1455-20 Low NOx Burner with Flue Gas Recirculation
- Condition 13 on the requirements for this permit unit assures compliance with this rule.

2. District Rule 1081, Source Sampling

This rule ensures that any source operation which emits or may emit air contaminants provides adequate and safe facilities for use in sampling to determine compliance. The rule also specifies methods and procedures for source testing, sample collection, and compliance determination.

§7.0 Administrative Requirements

§7.1 The District must be notified 30 days prior to any compliance source testing and the owner shall submit a source test plan for District approval 15 days prior to source sampling.

§7.2 Source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel.

§7.3 Source test reports must be submitted to the District within 60 days of completion of field testing. Source tests must be submitted for all District authorized compliance source tests regardless of pass, fail or reschedule because of failure, status.

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System
- Conditions 16, 17, and 26 on the requirements for this permit unit assure compliance with this rule.

- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner with an Induced Flue Gas Recirculation System
 - Conditions 16, 17, and 26 on the requirements for this permit unit assure compliance with this rule.
- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NOx Burner and a Flue Gas Recirculation System
 - Conditions 16, 17, and 26 on the requirements for this permit unit assure compliance with this rule.
- d. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
 - Conditions 16, 17, and 26 on the requirements for this permit unit assure compliance with this rule.
- e. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NOx Burner
 - Conditions 16, 17, and 26 on the requirements for this permit unit assure compliance with this rule.
- f. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
 - Conditions 15, 16, and 23 on the requirements for this permit unit assure compliance with this rule.

3. District Rule 2201, New and Modified Stationary Source Review Rule

The permit units are subject to the District Rule 2201 upon application for Authority to Construct (ATC). In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting Permit to Operate (PTO) were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System
- Condition 1 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 2 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 3 through 5 from the current PTO have been included as conditions 1 through 3 on the requirements of the proposed permit.
 - Conditions 6, 7, and 8 from the current PTO are subsumed by specific 40 CFR 60 Subpart Db conditions 29 through 33 on the requirements of the proposed permit.
 - Condition 9 from the current PTO has been included as condition 4 on the requirements of the proposed permit. The combined NOx emissions from the boilers have been changed from calendar year to 12-month rolling basis to comply with NSR requirements.
 - Conditions 10 through 33 from the current PTO have been included as conditions 5 through 28 on the requirements of the proposed permit.
- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner with an Induced Flue Gas Recirculation System
- Condition 1 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 2 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 3 through 5 from the current PTO have been included as conditions 1 through 3 on the requirements of the proposed permit.
 - Conditions 6, 7, and 8 from the current PTO are subsumed by specific 40 CFR 60 Subpart Db conditions 29 through 33 on the requirements of the proposed permit.
 - Condition 9 from the current PTO has been included as condition 4 on the requirements of the proposed permit. The combined NOx emissions from the boilers have been changed from calendar year to 12-month rolling basis to comply with NSR requirements.
 - Conditions 10 through 33 from the current PTO have been included as conditions 5 through 28 on the requirements of the proposed permit.
- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NOx Burner and a Flue Gas Recirculation System

- Condition 1 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 2 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 3 through 5 from the current PTO have been included as conditions 1 through 3 on the requirements of the proposed permit.
 - Conditions 6, 7, and 8 from the current PTO are subsumed by specific 40 CFR 60 Subpart Db conditions 29 through 33 on the requirements of the proposed permit.
 - Condition 9 from the current PTO has been included as condition 4 on the requirements of the proposed permit. The combined NOx emissions from the boilers have been changed from calendar year to 12-month rolling basis to comply with NSR requirements.
 - Conditions 10 through 33 from the current PTO have been included as conditions 5 through 28 on the requirements of the proposed permit.
- d. N-1326-5-1: 244 Bhp Cummins Model 6BTA-5.9 Diesel-Fired Emergency IC Engine Powering a Firewater Pump
- Conditions 1, 2, and 3 from the current PTO have been included as conditions 1, 2, and 3 on the requirements of the proposed permit.
 - Condition 4 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 5 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 6 through 11 from the current PTO have been included as conditions 4 through 9 on the requirements of the proposed permit.
 - Conditions 12 and 13 from the current PTO have not been included on the requirements of the proposed permit. The conditions are not applicable since the emissions unit is not located on the grounds of a K-12 school or within 500 feet of the property boundary of a K-12 school.
 - Condition 14 from the current PTO has been included as condition 10 on the requirements of the proposed permit.
- e. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
- Condition 1 from the current PTO has been moved to the Facility-Wide permit as condition 41.

- Condition 2 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 3 through 5 from the current PTO have been included as conditions 1 through 3 on the requirements of the proposed permit.
 - Conditions 6, 7, and 8 from the current PTO are subsumed by specific 40 CFR 60 Subpart Db conditions 29 through 33 on the requirements of the proposed permit.
 - Condition 9 from the current PTO has been included as condition 4 on the requirements of the proposed permit. The combined NOx emissions from the boilers have been changed from calendar year to 12-month rolling basis to comply with NSR requirements.
 - Conditions 10 through 33 from the current PTO have been included as conditions 5 through 28 on the requirements of the proposed permit.
- f. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NOx Burner
- Condition 1 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 2 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 3, 4, and 5 from the current PTO have been included as conditions 1, 2, and 3 on the requirements of the proposed permit.
 - Condition 6 from the current PTO has been included as condition 4 on the requirements of the proposed permit. The combined NOx emissions from the boilers have been changed from calendar year to 12-month rolling basis to comply with NSR requirements.
 - Conditions 7 through 31 from the current PTO have been included as conditions 5 through 29 on the requirements of the proposed permit.
- g. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
- Condition 1 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 2 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 3 through 5 from the current PTO have been included as conditions 1 through 3 on the requirements of the proposed permit.

- Conditions 6, 7, 8 and 9 from the current PTO are subsumed by specific 40 CFR 60 Subpart Db conditions 27 through 30 on the requirements of the proposed permit.
 - Condition 10 from the current PTO has been included as condition 4 on the requirements of the proposed permit. The combined NO_x emissions from the boilers have been changed from calendar year to 12-month rolling basis to comply with NSR requirements.
 - Conditions 11 through 31 from the current PTO have been included as conditions 5 through 25 on the requirements of the proposed permit.
- h. N-1326-13-1: 8.4 MMBtu/hr Hurst Model #SA-G-200-200 Natural Gas-Fired Boiler with an Industrial Combustion Model #LNDG-1455-20 Low NO_x Burner with Flue Gas Recirculation
- Condition 1 from the current PTO has been included as condition 1 on the requirements of the proposed permit. The combined NO_x emissions from the boilers have been changed from calendar year to 12-month rolling basis to comply with NSR requirements.
 - Condition 2 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 3 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 4 through 15 from the current PTO have been included as conditions 2 through 13 on the requirements of the proposed permit.
- i. N-1326-14-1: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
- Condition 1 from the current PTO has been moved to the Facility-Wide permit as condition 41.
 - Condition 2 from the current PTO has been included as condition 1 on the requirements of the proposed permit.
 - Condition 3 from the current PTO has been moved to the Facility-Wide permit as condition 22.
 - Conditions 4 through 14 from the current PTO have been included as conditions 2 through 12 on the requirements of the proposed permit.

4. District Rule 2410, Prevention of Significant Deterioration

The prevention of significant deterioration (PSD) program is a construction permitting program for new major stationary sources and major

modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant. The provisions of this rule apply to any source and the owner or operator of any source subject to any requirement under Title 40 Code of Federal Regulations (40 CFR) Part 52.21 as incorporated into this rule.

There are no PSD requirements for this source. Therefore, the facility is not subject to this rule and no further discussion is required.

5. District Rule 2520, Federally Mandated Operating Permits

Greenhouse Gas Requirements

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.

6. District Rule 4201, Particulate Matter Concentration

The purpose of this rule is to protect the ambient air quality by establishing a particulate matter emission standard. Section 3.1 requires emissions to be at or below 0.1 grains of particulate matter per dry standard cubic foot of exhaust gas.

Natural Gas-Fired Boilers

The following calculations show that the boilers in this facility firing on natural gas emit less than 0.1 grains of particulate matter per dry standard cubic foot of exhaust gas.

Natural Gas-Fired:

$$\left(\frac{7.6 \text{ lb PM}}{10^6 \text{ ft}^3} \right) \left(\frac{1 \text{ MMBtu}}{8710 \text{ dscf}} \right) \left(\frac{1 \text{ scf}}{950 \text{ Btu}} \right) \left(\frac{7000 \text{ gr}}{1 \text{ lb}} \right) = 0.006 \frac{\text{grains}}{\text{dscf}}$$

where:

$$7.6 \frac{\text{lb} \cdot \text{PM}}{10^6 \cdot \text{ft}^3} = \text{uncontrolled emission factor for natural gas fired boilers (AP42, Table 1.4 - 12)}$$

$$\frac{950 \text{ Btu}}{\text{scf}} = \text{the minimum expected higher heating value of natural gas (AP42, 1.4.1)}$$

$$\frac{8710 \text{ dscf}}{\text{MMBtu}} = \text{F factor, Fd, for natural gas (40CFR}\S\text{60, App. A, Meth. 19, Table 19-1)}$$

$$\frac{7000 \text{ gr}}{1 \text{ lb}} = \text{conversion factor (AP42, Appendix A)}$$

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System
 - Condition 1 on the requirements for this permit unit assures compliance with this rule.
- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner with an Induced Flue Gas Recirculation System
 - Condition 1 on the requirements for this permit unit assures compliance with this rule.
- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NOx Burner and a Flue Gas Recirculation System
 - Condition 1 on the requirements for this permit unit assures compliance with this rule.
- d. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
 - Condition 1 on the requirements for this permit unit assures compliance with this rule.
- e. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NOx Burner
 - Condition 1 on the requirements for this permit unit assures compliance with this rule.
- f. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner

- Condition 1 on the requirements for this permit unit assures compliance with this rule.
- g. N-1326-13-1: 8.4 MMBtu/hr Hurst Model #SA-G-200-200 Natural Gas-Fired Boiler with an Industrial Combustion Model #LNDG-1455-20 Low NO_x Burner with Flue Gas Recirculation
- Condition 2 on the requirements for this permit unit assures compliance with this rule.

Diesel-Fired IC Engines:

For diesel-fired emergency standby IC engines, the results from source tests of the engines generally indicate emission rates from these units are less than the allowable limit of 0.1 grain/dscf. Of the tests available at the time of this writing, most were in the range of 0.042 to 0.061 grain/dscf, with a low of 0.020 grain/dscf, and a high of 0.092 grain/dscf. However, although the above testing is sufficient to assume that IC engines comply with the 0.1 grain/dscf limit, the data is insufficient to prove compliance in all cases. There is an exemption from source testing for "Nonutility distillate-oil-fueled emergency piston-type IC engines." Per the CAPCOA/CARB/EPA IX Title V Periodic Monitoring Recommendations memo, dated July 2001, the District's grain loading limit of 0.1 grain/dscf does not need to be source tested as long as the following conditions are required in the Permit to Operate:

- 1) Engine usage is limited to maintenance, testing, and time of actual unforeseen emergencies.
 - 2) Usage for maintenance and testing is not to exceed 200 hours per year (the emergency standby diesel-fired engines in this facility are limited to less than or equal to 100 hours per year for maintenance and testing).
 - 3) Maintain records of all engine usage and maintenance.
- a. N-1326-5-1: 244 Bhp Cummins Model 6BTA-5.9 Diesel-Fired Emergency IC Engine Powering a Firewater Pump
- Conditions 3, 6, and 8 on the requirements for this permit unit assure compliance with this rule.
- b. N-1326-14-1: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
- Conditions 1, 10, and 13 on the requirements for this permit unit assure compliance with this rule.

7. District Rule 4305, Boilers, Steam Generators and Process Heaters – Phase 2

The purpose of this rule is to limit emissions of oxides of nitrogen (NO_x) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a rated heat input greater than 5 million Btu per hour.

Since emissions limits of District Rule 4306 and all other requirements are equivalent or more stringent than District Rule 4305 requirements, compliance with District Rule 4306 requirements satisfy the requirements of District Rule 4305.

8. District Rule 4306, Boilers, Steam Generators and Process Heaters – Phase 3

The purpose of this rule is to limit emissions of oxides of nitrogen (NO_x) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a rated heat input greater than 5 million Btu per hour.

§5.0 Requirements

§5.1 NO_x and CO Emission Limits

§5.1.1 Except for units subject to Sections 5.2, NO_x and carbon monoxide (CO) emissions shall not exceed the limits specified in Table 1.

Category	Operated on Gaseous Fuel			Operated on Liquid Fuel	
	NO _x Limit		CO Limit (ppmv)	NO _x Limit	CO Limit (ppmv)
	Standard option	Enhanced Option			
B. Units with a rated heat input greater than 20.0 MMBtu/hr	9 ppmv or 0.011 lb/MMBtu	6 ppmv or 0.007 lb/MMBtu	400	40 ppmv or 0.052 lb/MMBtu	400

§5.4 Monitoring Provisions

§5.4.2 The operator of any unit subject to the applicable emission limits in Sections 5.1 shall install and maintain an operational APCO approved

Continuous Emissions Monitoring System (CEMS) for NO_x, CO, and oxygen, or implement an APCO-approved Alternate Monitoring System. An APCO approved CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13 (except subsection h), 40 CFR Part 60 Appendix B (Performance Specifications) and 40 CFR Part 60 Appendix F (Quality Assurance Procedures, and applicable provisions of Rule 1080 (Stack Monitoring). An APCO approved Alternate Monitoring System shall monitor one or more of the following:

- §5.4.2.1 periodic NO_x and CO exhaust emission concentrations,
- §5.4.2.2 periodic exhaust oxygen concentration,
- §5.4.2.3 flow rate of reducing agent added to exhaust,
- §5.4.2.4 catalyst inlet and exhaust temperature,
- §5.4.2.5 catalyst inlet and exhaust oxygen concentration,
- §5.4.2.6 periodic flue gas recirculation rate,
- §5.4.2.7 other operational characteristics.

§5.4.3 For units subject to the requirements of Section 5.2.1 or 5.2.2, the operator shall monitor, at least on a monthly basis, the operational characteristics recommended by the manufacturer and approved by the APCO.

§5.5 Compliance Determination

§5.5.1 The operator of any unit shall have the option of complying with either the applicable heat input (lb/MMBtu) emission limits or the concentration (ppmv) emission limits specified in Section 5.1. The emission limits selected to demonstrate compliance shall be specified in the source test proposal pursuant to Rule 1081 (Source Sampling).

§5.5.2 All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Unless otherwise specified in the Permit to Operate no determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0.

§5.5.4 For emissions monitoring pursuant to Sections 5.4.2, 5.4.2.1, and 6.3.1 using a portable NO_x analyzer as part of an APCO approved Alternate Emissions Monitoring System, emission readings shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15-consecutive-minute sample reading or by taking at least five (5) readings evenly spaced out over the 15-consecutive-minute period.

§5.5.5 For emissions source testing performed pursuant to Section 6.3.1 for the purpose of determining compliance with an applicable standard or numerical limitation of this rule, the arithmetic average of three (3) 30-consecutive-minute test runs shall apply. If two (2) of three (3) runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit.

§6.2 Test Methods

The following test methods shall be used unless otherwise approved by the APCO and EPA.

§6.2.1 Fuel hhv shall be certified by third party fuel supplier or determined by:

§6.2.1.2 ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels.

§6.2.2 Oxides of nitrogen (ppmv) - EPA Method 7E, or ARB Method 100.

§6.2.3 Carbon monoxide (ppmv) - EPA Method 10, or ARB Method 100.

§6.2.4 Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.

§6.2.5 NOx Emission Rate (Heat Input Basis) - EPA Method 19.

§6.2.6 Stack gas velocities - EPA Method 2.

§6.2.7 Stack gas moisture content - EPA Method 4.

§6.3 Compliance Testing

§6.3.1 Each unit subject to the requirements in Sections 5.1 or 5.2.3 shall be source tested to determine compliance with the applicable emission limits at least once every 12 months, (no more than 30 days before or after the required annual source test date). Units that demonstrate compliance on two consecutive 12-month source tests may defer the following 12-month source test for up to 36 months (no more than 30 days before or after the required 36-month source test date).

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System
 - Conditions 5, 8, 10 through 15, 18 through 25, and 28 on the requirements for this permit unit comply with this rule.
- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner with an Induced Flue Gas Recirculation System

- Conditions 5, 8, 10 through 15, 18 through 25, and 28 on the requirements for this permit unit comply with this rule.
- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NOx Burner and a Flue Gas Recirculation System
- Conditions 5, 8, 10 through 15, 18 through 25, and 28 on the requirements for this permit unit comply with this rule.
- d. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
- Conditions 5, 8, 10 through 15, 18 through 25, and 28 on the requirements for this permit unit comply with this rule.
- e. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NOx Burner
- Conditions 5, 8, 10 through 15, 18 through 25, and 29 on the requirements for this permit unit comply with this rule.
- f. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
- Conditions 5, 8, 10 through 14, 17 through 22, and 25 on the requirements for this permit unit comply with this rule.
- g. N-1326-13-1: 8.4 MMBtu/hr Hurst Model #SA-G-200-200 Natural Gas-Fired Boiler with an Industrial Combustion Model #LNDG-1455-20 Low NO_x Burner with Flue Gas Recirculation
- Conditions 4, 6 through 9, and 13 on the requirements for this permit unit comply with this rule.
- 9. District Rule 4320 – Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr**

The purpose of this rule is to limit the emissions of oxides of nitrogen (NO_x), carbon monoxide (CO), oxides of sulfur (SO₂), and particulate

matter 10 microns or less (PM₁₀) from boilers, steam generators, and process heaters.

§5.1 states that operators of a unit(s) shall comply with all applicable requirements of the rule and one of the following, on a unit-by-unit basis:

§5.1.1 requires the unit comply with the emission limits specified in §5.2 and 5.4; or

§5.1.2, Pay an annual emissions fee to the District as specified in §5.3 and comply with the control requirements specified in §5.4.

§5.1.3, Comply with the applicable Low-use Unit requirements of §5.5.

Per §6.4.1, the operator submitted to the District an Emissions Control Plan containing the compliance schedule required by §7.0 of the rule. In the compliance plan, the facility chooses to comply with §5.1.1 of this rule which is to comply with the emission limits specified in §5.2 and comply with the control requirements specified in §5.4.

§5.4 states the particulate matter control requirements.

§5.4.1 To limit particulate matter emissions, an operator shall comply with one of the following requirements:

§5.4.1.1 On and after the applicable NO_x Compliance Deadline specified in §5.2 Table 1, operators shall fire units exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases;

§5.4.1.2 On and after the applicable NO_x Compliance Deadline specified in §5.2 Table 1, operators shall limit fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or

§5.4.1.3 On and after the applicable NO_x Compliance Deadline specified in §5.2 Table 1, operators shall install and properly operate an emission control system that reduces SO₂ emissions by at least 95% by weight; or limit exhaust SO₂ to less than or equal to 9 ppmv corrected to 3.0% O₂.

§5.4.1.4 Notwithstanding the compliance deadlines indicated in §5.4.1.1 through 5.4.1.3, refinery units, which require modification of refinery equipment to reduce sulfur emissions, shall be in compliance with the applicable requirement in §5.4.1 no later than July 1, 2013.

§5.4.2 Liquid fuel shall be used only during PUC quality natural gas curtailment periods, provided the requirements of §4.2 and §6.1.5 are met

and the fuel contains no more than 15 ppm sulfur, as determined by the test method specified in §6.2.

The facility chooses to comply with §5.1.1 of this rule for the following units by complying with the emissions limit and compliance schedule of §5.2 and the requirements of §5.4.1.1 by firing exclusively on PUC-regulated natural gas.

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System
 - Conditions 2, 5, 7, 8, 10 through 15, 18 through 26, and 28 on the requirements for this permit unit comply with this rule.
- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner with an Induced Flue Gas Recirculation System
 - Conditions 2, 5, 7, 8, 10 through 15, 18 through 26, and 28 on the requirements for this permit unit comply with this rule.
- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NOx Burner and a Flue Gas Recirculation System
 - Conditions 2, 5, 7, 8, 10 through 15, 18 through 26, and 28 on the requirements for this permit unit comply with this rule.
- d. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
 - Conditions 2, 5, 7, 8, 10 through 15, 18 through 26, and 28 on the requirements for this permit unit comply with this rule.
- e. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NOx Burner
 - Conditions 2, 5, 7, 8, 10 through 15, 18 through 26, and 29 on the requirements for this permit unit comply with this rule.

f. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NO_x Burner

- Conditions 2, 5, 7, 8, 10 through 14, 17 through 23, and 25 on the requirements for this permit unit comply with this rule.

The facility chooses to comply with §5.1.2 of this rule for the following unit by paying an annual emissions fee to the District as specified in §5.3 and comply with the control requirements §5.4.1.1 by firing exclusively on PUC-regulated natural gas.

g. N-1326-13-1: 8.4 MMBtu/hr Hurst Model #SA-G-200-200 Natural Gas-Fired Boiler with an Industrial Combustion Model #LNDG-1455-20 Low NO_x Burner with Flue Gas Recirculation

- Conditions 3, 14 and 15 on the requirements for this permit unit comply with this rule.

10. District Rule 4701, Internal Combustion Engines–Phase 1

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. Except as provided in Section 4.0, the provisions of this rule apply to any internal combustion engine, rated greater than 50 bhp that requires a Permit to Operate (PTO).

Pursuant to Section 2.0 of District Rule 4701, these engines are subject to District Rule 4701–*Internal Combustion Engines–Phase 1*. In addition, these engine are also subject to District Rule 4702–*Internal Combustion Engines–Phase 2*.

Since the emissions limits of District Rule 4702 and all other requirements are equivalent or more stringent than District Rule 4701 requirements, compliance with 4702 rule requirements will satisfy requirements of District Rule 4701 and no further discussion is required.

11. District Rule 4702, Internal Combustion Engines

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), 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.

§4.2 Except for the requirements of Sections 5.9 and 6.2.3, the requirements of this rule shall not apply to an emergency standby engine or a low-use engine, provided that the engine is operated with an operating nonresettable elapsed time meter.

§4.2.1 In lieu of operating a nonresettable elapsed time meter, the operator may use an alternative device, method, or technique, in determining operating time, provided that the alternative is approved by the APCO and EPA and is allowed by the Permit-to-Operate or Permit-Exempt Equipment Registration. The operator must demonstrate that the alternative device, method, or technique is equivalent to using a nonresettable elapsed time meter.

§4.2.2 The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

§5.9 Monitoring Requirements: All Other Engines

§5.9.1 The operator of any of the following engines shall comply with the requirements specified in Section 5.9.2 through Section 5.9.5 below:

§5.9.2 Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.

§5.9.3 Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.

§5.9.4 Install and operate a nonresettable elapsed time meter.

§5.9.4.1 In lieu of installing a nonresettable elapsed time meter, the operator may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and EPA and is allowed by a Permit-to- Operate or Permit-Exempt Equipment Registration condition.

§5.9.4.2 The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

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

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

- a. N-1326-5-1: 244 Bhp Cummins Model 6BTA-5.9 Diesel-Fired Emergency IC Engine Powering a Firewater Pump
 - Conditions 4, 6, 7, 8, and 10 on the requirements for this permit unit assure compliance with this rule.
- b. N-1326-14-1: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
 - Conditions 2, 7, 8, 9, 10, and 12 through 15 on the requirements for this permit unit assure compliance with this rule.

12. 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

§60.40b(a) This subpart applies each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 100 MMBtu/hr.

§60.2 defines an affected facility as, with reference to a stationary source, any apparatus to which a standard is applicable.

§60.42b This section states the standard for sulfur dioxide (SO₂) applicable to an affected facility that combusts coal or oil; coal refuse; coal or oil, either alone or in combination with any other fuel; or coke oven gas. The emissions units in this facility combust only PUC-quality natural gas. Therefore, the standards for sulfur dioxide do not apply to these emissions units.

§60.43b This section states the standard for particulate matter (PM) applicable to an affected facility that combusts coal or mixtures of coal with other fuels; oil or mixtures of oil with other fuels; wood, or wood with other fuels; municipal-type solid waste or municipal-type solid waste with other fuels; or coal, oil, wood, a mixture of these fuels. The emissions units in this

facility combust only PUC-quality natural gas. Therefore, the standards for particulate matter (PM) do not apply to these emissions units.

§60.44b(a) states that the owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil or natural gas shall cause to be discharged into the atmosphere from the affected facility any gases that contain nitrogen oxides (expressed as NO₂) in excess of 0.10 lb-NO_x/MMBtu for low heat release rate units.

§60.44b(h) states the nitrogen oxide emission limit shall apply at all times, including periods of startup, shutdown, or malfunction.

§60.44b(i) compliance with the emission limits under this section is determined on a 30-day rolling average basis.

§60.48b(g)(2) states that the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less, and which has an annual capacity factor for residual oil having a nitrogen content of 0.30 weight percent or less, natural gas, distillate oil, or any mixture of these fuels, greater than 10 percent shall monitor steam generating unit operating conditions and predict NO_x emission rates as specified in a plan submitted pursuant to §60.49b(c).

Section 60.49b(c) states the owner or operator of each affected facility subject to the NO_x standard of 60.44b who seeks to demonstrate compliance with those standards through the monitoring of steam generator unit operating conditions under the provisions of 60.48b(g)(2) shall submit to the Administrator for approval a plan that identifies the operating conditions to be monitored under §60.48b(g)(2) and the records to be maintained under §60.49b(g). This plan shall be submitted to the Administrator for approval within 360 days of the initial startup of the affected facility. If the plan is approved, the owner or operator shall maintain records of predicted NO_x emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. The plan shall:

- (1) Identify the specific operating conditions to be monitored and the relationship between these operating conditions and NO_x emission rates (i.e. ng/J or lb/MMBtu heat input). Steam generating unit operating conditions include, but are not limited to, the degree of staged combustion (i.e. ratio of primary air to secondary and/or tertiary air) and the level of excess air (i.e. flue gas O₂ level);
- (2) Include the data and information that the owner or operator used to identify the relationship between NO_x emission rates and these operating conditions;

(3) Identify how these operating condition, including steam generating unit load, will be monitored under §60.48b(g) on an hourly basis by the owner or operator during the period of operation of the affected facility; the quality assurance procedure or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator under §60.49b(g).

§60.49b(d) (1) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System
 - Conditions 29 through 33 on the requirements for this permit unit comply with this rule.
- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner with an Induced Flue Gas Recirculation System
 - Conditions 29 through 33 on the requirements for this permit unit comply with this rule.
- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NOx Burner and a Flue Gas Recirculation System
 - Conditions 29 through 33 on the requirements for this permit unit comply with this rule.
- d. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
 - Conditions 29 through 33 on the requirements for this permit unit comply with this rule.

- e. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NOx Burner
- Conditions 26 through 30 on the requirements for this permit unit comply with this rule.

13. 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

This subpart applies to each steam generating unit for which construction, modification, or reconstruction commenced after June 9, 1989 and has a maximum design heat input capacity of 100 MMBtu/hr or less but greater than or equal to 10 MMBtu/hr. Subpart Dc has standards for SO_x and PM₁₀.

§60.42c – Standards for Sulfur Dioxide

Since coal is not combusted by any boiler at this facility, the requirements of this section are not applicable.

§60.43c – Standards for Particulate Matter

The boilers at this facility are not fired on coal, mixtures of coal with other fuels, wood, mixtures of wood with other fuels, or oil; therefore they are not subject to the requirements of this section.

§60.45c – Compliance and Performance Test Methods and Procedures for Particulate Matter

Since the boilers at this facility are not subject to the particulate matter requirements of this subpart, no testing to show compliance is required. Therefore, the requirements of this section are not applicable to the boilers at this facility.

§60.46c – Emission Monitoring for Sulfur Dioxide

Since the boilers at this facility are not subject to the sulfur dioxide requirements of this subpart, no monitoring is required. Therefore, the requirements of this section are not applicable to the boilers at this facility.

§60.47c – Emission Monitoring for Particulate Matter

Since the boilers at this facility are not subject to the particulate matter requirements of this subpart, no monitoring is required. Therefore, the requirements of this section are not applicable to the boilers at this facility.

§60.48c – Reporting and Recordkeeping Requirements

This section states that the owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

The design heat input capacity and type of fuel combusted at the facility are on the unit's equipment description. No conditions are required to show compliance with this requirement.

- (2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel mixture of fuels under §60.42c or §40.43c.

This requirement is not applicable since these units are not subject to §60.42c or §40.43c.

- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

The facility has no annual capacity factor; therefore one will not be required.

- (4) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

This requirement is not applicable since the unit is not equipped with an emerging technology used to control SO₂ emissions.

§60.48c(g) states that the owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

§ 60.48c(i) states that all records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. District Rule 4320 requires that records be kept for five years.

a. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NOx Burner

- Condition 27 on the requirements for this permit unit assures compliance with this rule.

14. 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

This provisions of this subpart are applicable to owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005 where the stationary CI ICE are manufactured after April 1, 2006 and are not fire pump engines.

The CI ICEs in this facility were all manufactured prior to April 1, 2006. Therefore the CI internal combustion engines are not subject to this subpart.

15. 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.

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

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

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

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

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

- Permit units N-1326-5-1 and N-1326-14-1 are existing stationary RICE since both commenced construction before June 12, 2006.

§63.6595(a)(1) An existing stationary CI RICE located at an area source of HAP emissions must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.

- On permit units N-1326-5-1 and N-1326-14-1, the compliance date of May 3, 2013 is included in the conditions that comply with this subpart.

§63.6603(a) An existing stationary RICE located at an area source of HAP emissions must comply with the applicable requirements in Table 2d to this subpart and the operating limitations in Table 1b and Table 2b to this subpart that apply to you.

Table 1b to Subpart ZZZZ of Part 63—Operating Limitations for Existing, New, and Reconstructed Spark Ignition 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions and Existing Spark Ignition 4SRB Stationary RICE >500 HP Located at an Area Source of HAP Emissions

- Permit units N-1326-5-1 and N-1326-14-1 do not meet the criteria in Table 1b heading and therefore, are not subject to the operating limitations in Table 1b.

Table 2b to Subpart ZZZZ of Part 63—Operating Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP Located at a Major Source of HAP Emissions, New and Reconstructed 4SLB Stationary RICE \geq 250 HP Located at a Major Source of HAP Emissions, Existing Compression Ignition Stationary RICE >500 HP, and Existing 4SLB Stationary RICE >500 HP Located at an Area Source of HAP Emissions

- Permit units N-1326-5-1 and N-1326-14-1 do not meet the criteria in Table 2b heading and therefore, are not subject to the operating limitations in Table 2b.

Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each	You must meet the following requirement, except during periods of startup	During periods of startup you must
4. Emergency stationary CI RICE	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect air cleaner 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.	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

§63.6625(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.

§63.6640(a) You 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.

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each	Complying with the requirement to	You must demonstrate continuous compliance by
9. Existing emergency and black start stationary RICE located at an area source of HAP	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow 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.

§63.6640(f)(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.

§63.6655(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE.

§63.6655(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.

- a. N-1326-5-1: 244 Bhp Cummins Model 6BTA-5.9 Diesel-Fired Emergency IC Engine Powering a Firewater Pump
 - Conditions 4, 6, 10, and 11 through 17 on the requirements for this permit unit assure compliance with this rule.
- b. N-1326-14-1: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator
 - Conditions 7, 10, 15, and 16 through 21 on the requirements for this permit unit assure compliance with this rule.

16. 40 CFR Part 64, CAM

§64.2 – Applicability

This section 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

§64.3 - Monitoring Design Criteria

This section specifies the design criteria for the CAM system. Paragraph (a) (*General criteria*) requires that the CAM system be designed to obtain data for one or more appropriate indicators of emission control system performance and requires the owner to establish appropriate ranges or designated conditions for the selected indicators such that operation within the ranges provides a reasonable assurance of ongoing compliance with emission limitations or standards for the anticipated range of operating conditions.

Paragraph (b) (*Performance criteria*) requires the owner or operator to establish and maintain the following:

- Specifications to ensure that representative data are collected
- Verification procedures for startup of new monitoring equipment
- Quality assurance and control practices to ensure continuing validity of data
- Data collection frequency and procedures

Paragraph (c) (*Evaluation factors*) requires the owner or operator to take into account site specific factors in the design of the CAM system.

Paragraph (d) (*Special criteria for the use of continuous emission, opacity, or predictive monitoring systems*) requires the owner or operator to use a continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS), or a predictive emission monitoring system (PEMS) to satisfy CAM requirements, provided that these monitoring systems are required pursuant to other authority under the Clean Air Act or state or local law. This subsection also stipulates the following:

- The use of a CEMS, COMS, or PEMS that satisfies any of the following monitoring requirements shall be deemed to satisfy the general design criteria in paragraphs (a) and (b) of this section, provided that a COMS may be subject to the criteria for establishing indicator ranges under paragraph (a) of this section:
 - (i) Section 51.214 and appendix P of 40 CFR 51;
 - (ii) Section 60.13 and appendix B of 40 CFR 60;
 - (iii) Section 63.8 and any applicable performance specifications required pursuant to the applicable subpart of 40 CFR 63; (iv) 40 CFR 75;
 - (v) Subpart H and appendix IX of 40 CFR 266; or
 - (vi) In the event that the monitoring system is not subject to any of the requirements listed above, comparable requirements and specifications established by the permitting authority.

- The owner or operator shall design the monitoring system subject to this paragraph (d) to:
 - (i) Allow for reporting of exceedances (or excursions if applicable to a COMS used to assure compliance with a particulate matter standard), consistent with any period for reporting of exceedances in an underlying requirement. If an underlying requirement does not contain a provision for establishing an averaging period for the reporting of exceedances or excursions, the criteria used to develop an averaging period specified in the data collection procedures required under paragraph (b) of this section shall apply; and
 - (ii) Provide an indicator range consistent with paragraph (a) of this section for a COMS used to assure compliance with a particulate matter standard. If an opacity standard applies to the pollutant-specific emissions unit, such limit may be used as the appropriate indicator range unless the opacity limit fails to meet the criteria in paragraph (a) of this section after considering the type of control device and other site-specific factors applicable to the pollutant-specific emissions unit.

§64.4 - Submittal Requirements

This section specifies submittal requirements for the owner or operator which ensure the CAM system will comply with the design criteria of §64.3.

§64.5 - Deadlines for Submittals

This section specifies required timing for submittals required under §64.4.

For all large pollutant-specific emissions units with the potential to emit (taking into account control devices) the applicable regulated air pollutant in an amount equal to or greater than 100 percent of the amount required for a source to be classified as a major source, the owner or operator shall submit the information required at the following times. On or after April 20, 1998, the owner or operator shall submit information as part of an application for an initial Title V permit if, by that date, the application has either not been filed or has not been deemed complete. Where the initial Title V permit has been issued without implementation of 40 CFR 64, the owner or operator must make the required submittals as a part of a subsequent application for any significant permit revision. If the required information is not submitted by either of these deadlines, it must be submitted as a part of the application for the Title V permit renewal.

For other pollutant-specific emissions units, the required submittal deadline is the application for Title V permit renewal.

§64.6 - Approval of monitoring

This section stipulates the following:

- A requirement that the permitting authority act to approve the proposed monitoring by confirming that the monitoring submitted complies with the requirements of §64.3
- An allowance for the permitting authority to condition the approval based on collecting additional data on the indicators to be monitored, including performance or compliance testing
- The minimum conditions that must be placed on the permit in the event that the proposed monitoring is approved by the permitting authority including a milestone schedule for completion of any conditional approval actions required by the owner or operator, such as installations, testing, or verification of operational status
- Actions required by the permitting authority in the event that the proposed monitoring is not approved

The CAM submittal requirements and stipulations for approval of such submittals pursuant to §64.4, §64.5, and §64.6 have been completed in conjunction with the application and review process for this renewal of the Title V permit.

§64.7 - Operation of Approved Monitoring

This section stipulates the following:

- Requirements that the owner or operator 1) commence the monitoring upon receipt of a Title V permit that includes such monitoring, 2) properly maintain the monitoring system, and 3) conduct all monitoring in a continuous mode with the exception of outage periods associated with monitor malfunction and repair and with quality assurance and control activities
- Actions required by the owner or operator in response to excursions or exceedances
- A requirement for the owner or operator to document any need for improved monitoring based upon either an identification of a failure of the monitoring system to identify an excursion or exceedance or upon the results of compliance or performance testing that identifies a need to modify the monitoring

§64.8 - Quality Improvement Plan (QIP) Requirements

This section stipulates that the Administrator or the permitting authority may require that the facility develop and implement a QIP in the event of a determination of a need for improved monitoring pursuant to §64.7. §64.8 also identifies the minimum elements required in the QIP, and requires that the facility implement the QIP as expeditiously as possible, with implementation not exceeding 180 days after the date that the need for implementation was identified unless the permitting authority is notified.

§64.9 - Reporting and Recordkeeping Requirements

This section stipulates the minimum reporting and recordkeeping requirements for facilities subject to 40 CFR 64.

§64.10 - Savings Provisions

This section states that the purpose of 40 CFR 64 is to require, as a part of the issuance of a Title V permit, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of 40 CFR 64. In addition, §64.10 states that nothing in 40 CFR 64 shall excuse an owner or operator from

any other requirements of federal, state or local law or restrict or abrogate the authority of the Administrator or of the permitting authority.

- a. N-1326-1-8: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System

The boiler is equipped with a low NO_x burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. The unit is not subject to CAM for SO_x, PM₁₀, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO_x since it has an FGR system that is an add-on control for NO_x. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO_x (20,000 lb/yr).

Major source threshold for NO_x = 20,000 lb/year
Pre-control emission factor = 0.1 lb-NO_x/MMBtu (API-42, 1.4-1))
Controlled emission factor = 0.008 lb-NO_x/MMBtu (permit limit)
Annual hours of operation = 8,760

Annual emissions (pre-control) = 0.1 x 8,760 x 130 = 113,880 lb-NO_x/year (113,880 lb-NO_x/year > 20,000)

Annual emissions (controlled) = 0.008 x 8,760 x 130 = 9,110 lb-NO_x/year (9,110 lb-NO_x/year < 20,000)

CAM is required for NO_x emissions since the pre-control potential is greater than the major source threshold for NO_x. Since the controlled NO_x is less than major source, a minimum monitoring frequency of 24 hours is required.

However, with controlled emissions from the unit less than the Major Source Threshold, the unit does not meet the definition of a large pollutant-specific emissions unit per §64.5(a). Per §64.5(b), deadlines for submittal for other pollutant-specific emission units, a CAM plan is not required until the time of the first renewal of the Title V permit and CAM will not be included in this initial Title V permit.

- b. N-1326-2-9: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NO_x Burner with an Induced Flue Gas Recirculation System

The boiler is equipped with a low NO_x burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. The unit is not subject to CAM for SO_x, PM₁₀, CO, and VOC since

it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO_x since it has an FGR system that is an add-on control for NO_x. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO_x (20,000 lb/yr).

Major source threshold for NO_x = 20,000 lb/year
Pre-control emission factor = 0.1 lb-NO_x/MMBtu (API-42, 1.4-1))
Controlled emission factor = 0.008 lb-NO_x/MMBtu (permit limit)
Annual hours of operation = 8,760

Annual emissions (pre-control) = 0.1 x 8,760 x 120 = 105,120 lb-NO_x/year (105,120 lb-NO_x/year > 20,000)

Annual emissions (controlled) = 0.008 x 8,760 x 120 = 8,410 lb-NO_x/year (8,410 lb-NO_x/year < 20,000)

CAM is required for NO_x emissions since the pre-control potential is greater than the major source threshold for NO_x. Since the controlled NO_x is less than major source, a minimum monitoring frequency of 24 hours is required.

However, with controlled emissions from the unit less than the Major Source Threshold, the unit does not meet the definition of a large pollutant-specific emissions unit per §64.5(a). Per §64.5(b), deadlines for submittal for other pollutant-specific emission units, a CAM plan is not required until the time of the first renewal of the Title V permit and CAM will not be included in this initial Title V permit.

- c. N-1326-3-10: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NO_x Burner and a Flue Gas Recirculation System

The boiler is equipped with a low NO_x burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. The unit is not subject to CAM for SO_x, PM₁₀, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO_x since it has an FGR system that is an add-on control for NO_x. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO_x (20,000 lb/yr).

Major source threshold for NO_x = 20,000 lb/year
Pre-control emission factor = 0.1 lb-NO_x/MMBtu (API-42, 1.4-1))
Controlled emission factor = 0.008 lb-NO_x/MMBtu (permit limit)
Annual hours of operation = 8,760

Annual emissions (pre-control) = $0.1 \times 8,760 \times 120 = 105,120$ lb-NO_x/year (105,120 lb-NO_x/year > 20,000)

Annual emissions (controlled) = $0.008 \times 8,760 \times 120 = 8,410$ lb-NO_x/year (8,410 lb-NO_x/year < 20,000)

CAM is required for NO_x emissions since the pre-control potential is greater than the major source threshold for NO_x. Since the controlled NO_x is less than major source, a minimum monitoring frequency of 24 hours is required.

However, with controlled emissions from the unit less than the Major Source Threshold, the unit does not meet the definition of a large pollutant-specific emissions unit per §64.5(a). Per §64.5(b), deadlines for submittal for other pollutant-specific emission units, a CAM plan is not required until the time of the first renewal of the Title V permit and CAM will not be included in this initial Title V permit.

- d. N-1326-5-1: 244 Bhp Cummins Model 6BTA-5.9 Diesel-Fired Emergency IC Engine Powering a Firewater Pump

This emissions unit is not equipped with add-on control for any criteria pollutants. Therefore, the unit is not subject to CAM for any criteria pollutants.

- e. N-1326-8-5: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NO_x Burner

The boiler is equipped with an ultra-low NO_x burner (ULNB) with flue gas recirculation (FGR) and emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. The unit is not subject to CAM for SO_x, PM₁₀, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO_x since it has an FGR system that is an add-on control for NO_x. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO_x (20,000 lb/yr).

Major source threshold for NO_x = 20,000 lb/year
Pre-control emission factor = 0.1 lb-NO_x/MMBtu (API-42, 1.4-1))
Controlled emission factor = 0.008 lb-NO_x/MMBtu (permit limit)
Annual hours of operation = 8,760

Annual emissions (pre-control) = $0.1 \times 8,760 \times 205 = 179,580$ lb-NO_x/year (179,580 lb-NO_x/year > 20,000)

Annual emissions (controlled) = $0.008 \times 8,760 \times 205 = 14,366$ lb-NO_x/year (14,366 lb-NO_x/year < 20,000)

CAM is required for NO_x emissions since the pre-control potential is greater than the major source threshold for NO_x. Since the controlled NO_x is less than major source, a minimum monitoring frequency of 24 hours is required.

However, with controlled emissions from the unit less than the Major Source Threshold, the unit does not meet the definition of a large pollutant-specific emissions unit per §64.5(a). Per §64.5(b), deadlines for submittal for other pollutant-specific emission units, a CAM plan is not required until the time of the first renewal of the Title V permit and CAM will not be included in this initial Title V permit.

- f. N-1326-11-3: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NO_x Burner

The boiler is equipped with an ultra-low NO_x burner (ULNB) with flue gas recirculation (FGR) and emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. The unit is not subject to CAM for SO_x, PM₁₀, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO_x since it has an FGR system that is an add-on control for NO_x. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO_x (20,000 lb/yr).

Major source threshold for NO_x = 20,000 lb/year
Pre-control emission factor = 0.1 lb-NO_x/MMBtu (API-42, 1.4-1))
Controlled emission factor = 0.008 lb-NO_x/MMBtu (permit limit)
Annual hours of operation = 8,760

Annual emissions (pre-control) = $0.1 \times 8,760 \times 90 = 78,840$ lb-NO_x/year (78,840 lb-NO_x/year > 20,000)

Annual emissions (controlled) = $0.008 \times 8,760 \times 90 = 6,307$ lb-NO_x/year (6,307 lb-NO_x/year < 20,000)

CAM is required for NO_x emissions since the pre-control potential is greater than the major source threshold for NO_x. Since the controlled NO_x is less than major source, a minimum monitoring frequency of 24 hours is required.

However, with controlled emissions from the unit less than the Major Source Threshold, the unit does not meet the definition of a large pollutant-specific emissions unit per §64.5(a). Per §64.5(b), deadlines for submittal for other pollutant-specific emission units, a CAM plan is not required until the time of the first renewal of the Title V permit and CAM will not be included in this initial Title V permit.

- g. N-1326-12-3: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NO_x Burner

The boiler is equipped with an ultra-low NO_x burner (ULNB) with flue gas recirculation (FGR) and emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. The unit is not subject to CAM for SO_x, PM₁₀, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO_x since it has an FGR system that is an add-on control for NO_x. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO_x (20,000 lb/yr).

Major source threshold for NO_x = 20,000 lb/year
Pre-control emission factor = 0.1 lb-NO_x/MMBtu (API-42, 1.4-1))
Controlled emission factor = 0.008 lb-NO_x/MMBtu (permit limit)
Annual hours of operation = 8,760

Annual emissions (pre-control) = $0.1 \times 8,760 \times 118.6 = 103,893$ lb-NO_x/year (103,896 lb-NO_x/year > 20,000)

Annual emissions (controlled) = $0.008 \times 8,760 \times 118.6 = 8,311$ lb-NO_x/year (8,311 lb-NO_x/year < 20,000)

CAM is required for NO_x emissions since the pre-control potential is greater than the major source threshold for NO_x. Since the controlled NO_x is less than major source, a minimum monitoring frequency of 24 hours is required.

However, with controlled emissions from the unit less than the Major Source Threshold, the unit does not meet the definition of a large pollutant-specific emissions unit per §64.5(a). Per §64.5(b), deadlines for submittal for other pollutant-specific emission units, a CAM plan is not required until the time of the first renewal of the Title V permit and CAM will not be included in this initial Title V permit.

- h. N-1326-13-1: 8.4 MMBtu/hr Hurst Model #SA-G-200-200 Natural Gas-Fired Boiler with an Industrial Combustion Model #LNDG-1455-20 Low NO_x Burner with Flue Gas Recirculation

The boiler is equipped with a low NO_x burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. The unit is not subject to CAM for SO_x, PM₁₀, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO_x since it has an FGR system that is an add-on control for NO_x. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO_x (20,000 lb/yr).

Major source threshold for NO_x = 20,000 lb/year
Pre-control emission factor = 0.1 lb-NO_x/MMBtu (API-42, 1.4-1))
Controlled emission factor = 0.008 lb-NO_x/MMBtu (permit limit)
Annual hours of operation = 8,760

Annual emissions (pre-control) = 0.1 x 8,760 x 8.4 = 7,358 lb-NO_x/year
(7,358 lb-NO_x/year < 20,000)

Annual emissions (controlled) = 0.008 x 8,760 x 118.6 = 8,311 lb-NO_x/year
(8,311 lb-NO_x/year < 20,000)

CAM is not required for NO_x emissions since the pre-control potential is less than the major source threshold for NO_x.

- i. N-1326-14-1: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

This emissions unit is not equipped with add-on control for any criteria pollutants. Therefore, the unit is not subject to CAM for any criteria pollutants.

X. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

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

XI. PERMIT CONDITIONS

See draft operating permit beginning on the following page.

San Joaquin Valley Air Pollution Control District

FACILITY: N-1326-0-1

EXPIRATION DATE: 09/30/2017

FACILITY-WIDE REQUIREMENTS

1. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: MORNING STAR PACKING COMPANY
Location: 13448 S VOLTA RD. LOS BANOS, CA 93635
N-1326-0-1; Feb 12 2013 8:47AM - SIONGCOJ

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

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

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

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

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On {Month, Day, Year}, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-1-8

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

130 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN MODEL #D-RMB128 BURNER AND A FLUE GAS RECIRCULATION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NO_x emissions shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM₁₀ emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO_x and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] 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. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. 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
17. 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
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-2-9

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER WITH AN INDUCED FLUE GAS RECIRCULATION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] 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. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. 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
17. 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
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-3-10

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB LOW NOX BURNER AND A FLUE GAS RECIRCULATION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NO_x emission shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM₁₀ emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO_x and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] 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. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. 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
17. 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
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-5-1

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

244 BHP CUMMINS MODEL 6BTA-5.9 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The daily emissions limits for the engine shall not exceed the following levels : PM 10 = 12.9 pounds/day; NOx = 93.1 pounds/day; SOx = 12.0 pounds/day; CO = 39.2 pounds/day and VOC = 14.5 pounds/day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63.6625 (f), and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 40 CFR 63.6640 (f)(ii), and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. {3415} The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
10. 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, 40 CFR 63.6660, and 17 CCR 93115] 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. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)] Federally Enforceable Through Title V Permit
12. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63.6585/63.6595 (a)] Federally Enforceable Through Title V Permit
13. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
14. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
15. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-8-5

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

205 MMBTU/HR NEBRASKA MODEL #N2S-7/S-95-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. 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
17. 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
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NO_x emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NO_x emission limit (as NO₂) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NO_x standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NO_x standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NO_x emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NO_x emission rates; include the data and information that the owner or operator used to identify the relationship between NO_x emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NO_x emission rates (expressed as NO₂) (lb/MMBtu heat input) measured or predicted; the 30-day average NO_x emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-11-3

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

90 MMBTU/HR NEBRASKA MODEL #NS-E-59 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB RAPID MIX ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201 and 40 CFR 60.48c] Federally Enforceable Through Title V Permit
4. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NO_x emissions shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM₁₀ emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO_x and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] 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. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. 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
17. 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
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the monthly fuel usage of this boiler shall be kept and shall be maintained on the premises at all times. [District Rule 2201 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
28. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
29. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-12-3

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NO_x emissions shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM₁₀ emissions shall not exceed 0.005 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320] 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. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. 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
16. 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
17. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
18. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] 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.

22. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
24. Records of the cumulative NO_x emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
26. The NO_x emission limit (as NO₂) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
27. The NO_x standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NO_x standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
28. The owner or operator shall monitor the steam generating unit operating conditions and predict NO_x emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NO_x emission rates; include the data and information that the owner or operator used to identify the relationship between NO_x emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
29. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NO_x emission rates (expressed as NO₂) (lb/MMBtu heat input) measured or predicted; the 30-day average NO_x emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-13-1

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

8.4 MMBTU/HR HURST MODEL #SA-G-200-200 NATURAL GAS-FIRED BOILER WITH AN INDUSTRIAL COMBUSTION MODEL #LNDG-1455-20 LOW NOX BURNER WITH FLUE GAS RECIRCULATION (FGR)

PERMIT UNIT REQUIREMENTS

1. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, -2, -3, -8, -11, -12, and -13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201 and 4320] Federally Enforceable Through Title V Permit
4. Maximum annual heat input of the unit shall be less than 9 billion Btu per calendar year. [District Rules 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306] Federally Enforceable Through Title V Permit
7. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306] Federally Enforceable Through Title V Permit
8. Emissions rates from the natural gas-fired unit shall not exceed any of the following limits: 20 ppmv NOx @ 3% O2 or 0.024 lb-NOx/MMBtu, 0.00285 lb-SOx/MMBtu, 0.005 lb-PM10/MMBtu, 100 ppmv CO @ 3% O2 or 0.0739 lb-CO/MMBtu, or 2 ppmv VOC @ 3% O2 or 0.001 lb-VOC/MMBtu. [District Rules 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
9. Records of monthly and annual heat input of the unit shall be maintained. [District Rules 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
10. Records of the daily fuel usage by this boiler shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Records of tune-up and monitoring of the operational characteristics of the unit shall be maintained. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
12. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, -2, -3, -8, -11, -12, and -13 shall be updated daily. [District Rule 2201] Federally Enforceable Through Title V Permit

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

13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
14. Pursuant to Rule 4320, beginning in 2010 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-14-1

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

130 BHP DUETZ MODEL BF6M1012C TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING A 80 KW ELECTRIC GENERATOR

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PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall 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
3. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from this IC engine shall not exceed any of the following limits: 6.5 g-NOx/bhp-hr, 1.3 g-CO/bhp-hr, or 0.3 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63.6625 (f)] Federally Enforceable Through Title V Permit
8. 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
9. 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
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63.6640 (f)(ii)] Federally Enforceable Through Title V Permit
11. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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12. 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
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 40 CFR 63.6660, and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63.6585/63.6595 (a)] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63.6603/63.6640 Table 2d, Row 4.a] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 4.b] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63.6603/63.6640 Table 2d, Row 4.c] Federally Enforceable Through Title V Permit
21. On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(2) and (a)(5)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

22. On and after May 3, 2013, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

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Attachment A

Detailed Facility Printout

Detailed Facility Report
For Facility=1326 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

MORNING STAR PACKING COMPANY 13448 S VOLTA RD LOS BANOS, CA 93635	FAC # STATUS: TELEPHONE:	N 1326 A 2098268000	TYPE: TOXIC ID:	TitleV	EXPIRE ON: AREA: INSP. DATE:	09/30/2017 15 / 10/13
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1326-1-7	130 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	130 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN MODEL #D-RMB128 BURNER AND A FLUE GAS RECIRCULATION SYSTEM
N-1326-2-8	120 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER WITH AN INDUCED FLUE GAS RECIRCULATION SYSTEM
N-1326-3-9	120 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB LOW NOX BURNER AND A FLUE GAS RECIRCULATION SYSTEM
N-1326-5-0	244 BHP IC ENGINE	3020-10 C	1	240.00	240.00	A	244 BHP CUMMINS MODEL 6BTA-5.9 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
N-1326-8-4	205 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	205 MMBTU/HR NEBRASKA MODEL #N2S-7/S-95-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER
N-1326-11-2	90 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	90 MMBTU/HR NEBRASKA MODEL #NS-E-59 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB RAPID MIX ULTRA LOW NOX BURNER
N-1326-12-2	118.6 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #CRMB ULTRA LOW NOX BURNER
N-1326-13-0	8,400 kBtu/hr burner	3020-02 G	1	815.00	815.00	A	8.4 MMBTU/HR HURST MODEL #SA-G-200-200 NATURAL GAS-FIRED BOILER WITH AN INDUSTRIAL COMBUSTION MODEL #LNDG-1455-20 LOW NOX BURNER WITH FLUE GAS RECIRCULATION (FGR)
N-1326-14-0	130 bhp	3020-10 B	1	117.00	117.00	A	130 BHP DUETZ MODEL BF6M1012C TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 80 KW ELECTRIC GENERATOR

Number of Facilities Reported: 1

Attachment B

Exempt Equipment

**San Joaquin Valley
Unified Air Pollution Control District
Title V Application - INSIGNIFICANT ACTIVITIES**

COMPANY NAME: Liberty Packing Co.-The Morning Star Co.

FACILITY ID: N-1399

Check the box next to the exemption category from Rule 2020 which describes any insignificant activity or equipment at your facility not requiring a permit.

Exemption Category	Rule 2020 Citation	√	Exemption Category	Rule 2020 Citation	√
Structure or incinerator assoc. with a structure designed as a dwelling for 4 families or less	4.1		Containers used to store refined lubricating oils	6.6.8	
Locomotives, airplanes, and watercraft used to transport passengers or freight	4.4		Unvented pressure vessels used exclusively to store liquified gases or assoc with exempt equipment	6.6.9 or 6.13	√
Natural gas or LPG-fired boilers or other indirect heat transfer units of 5 MMBtu/hr or less	6.1.1		Portable tanks used exclusively to store produced fluids for ≤ six months	6.6.10	√
Piston-type i.c.engine with maximum continuous rating of 50 braking horsepower (bhp) or less	6.1.2		Mobile transport tanks on delivery vehicles of VOCs	6.6.11	
Gas turbine engines with maximum heat input rating of 3 MMBtu/hr or less	6.1.3		Loading racks used for the transfer of less than 4,000 gal/day of unheated organic material with initial boiling point ≥ 302 F or of fuel oil with specific gravity ≥ 0.8251	6.7.1.1	√
Space heating equipment other than boilers	6.1.4		Loading racks used for the transfer of asphalt, crude or residual oil stored in exempt tanks, or crude oil with specific gravity ≥ 0.8762	6.7.1.2	
Cooling towers with a circulation rate less than 10,000 gal/min, and that are not used for cooling of process water, or water from barometric jets or condensers++	6.2		Equipment used exclusively for the transfer of refined lubricating oil	6.7.2	
Use of less than 2 gal/day of graphic arts materials	6.3		Equipment used to apply architectural coatings	6.8.1	√
Equipment at retail establishments used to prepare food for human consumption	6.4.1		Unheated, non-conveyorized cleaning equipment with < 10 ft ² open area; using solvents with initial boiling point ≥ 248 F; and < 25 gal/yr. evaporative losses	6.9	
Ovens at bakeries with total daily production less than 1,000 pounds and exempt by sec. 6.1.1	6.4.3		Brazing, soldering, or welding equipment	6.10	√
Equipment used exclusively for extruding or compression molding of rubber or plastics, where no plastisizer or blowing agent is used	6.5		Equipment used to compress natural gas	6.11	
Containers used to store clean produced water	6.6.1		Fugitive emissions sources assoc. with exempt equipment	6.12	√
Containers ≤ 100 bbl used to store oil with specific gravity ≥ 0.8762	6.6.2		Pits and Ponds as defined in Rule 1020	6.15	√
Containers ≤ 100 bbl installed prior to 6/1/89 used to store oil with specific gravity ≥ 0.8762	6.6.3		On-site roadmix manufacturing and the application of roadmix as a road base material	6.17	
Containers with a capacity ≤ 250 gallons used to store organic material where the actual storage temperature < 150 F	6.6.4		Emissions less than 2 lb/day from units not included above	6.19	
Containers used to store unheated organic material with an initial boiling point ≥ 302 F	6.6.5		Venting PUC quality natural gas from for sole purpose of pipeline and compressor repair and or maintenance	7.2	
Containers used to store fuel oils or non-air-blown asphalt with specific gravity ≥ 0.9042	6.6.6		Non-structural repairs & maintenance to permitted equipment	7.3	√
Containers used to store petroleum distillates used as motor fuel with specific gravity ≥ 0.8251	6.6.7		Detonation of explosives ≤ 100 lb/day and 1,000 lb/year	7.4	

No insignificant activities (Check this box if no equipment in the above categories exist at your facility.)

Attachment C

SJVUAPCD Permits



Permit to Operate

FACILITY: N-1326

EXPIRATION DATE: 09/30/2017

LEGAL OWNER OR OPERATOR:

MORNING STAR PACKING COMPANY

MAILING ADDRESS:

13448 S VOLTA RD
LOS BANOS, CA 93635

FACILITY LOCATION:

13448 S VOLTA RD
LOS BANOS, CA 93635

FACILITY DESCRIPTION:

AGRICULTURAL PRODUCTS PROCESSING

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.

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Executive Director / APCO

David Warner

Director of Permit Services

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-1-7

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

130 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN MODEL #D-RMB128 BURNER AND A FLUE GAS RECIRCULATION SYSTEM

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201]
6. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [40 CFR Part 60, Subpart Db]
7. The permittee shall comply with the emission monitoring requirements for nitrogen oxides given in 40 CFR Part 60.48b. [40 CFR Part 60, Subpart Db]
8. The permittee shall comply with the reporting requirements of 40 CFR Part 60.48b. [District Rule 4001]
9. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds in any one calendar year. [District Rule 2201]
10. NO_x emissions shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306 and 4320]
11. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301]
12. PM₁₀ emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320]
13. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4305 and 4320]
14. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201]
15. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320]
16. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO_x and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

17. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306 and 4320]
18. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320]
19. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306 and 4320]
20. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
23. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
24. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
25. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
26. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
27. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
28. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320]
29. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306 and 4320]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

30. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320]
31. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320]
32. Records of the cumulative NOx emissions from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 for the calendar year shall be kept and shall be updated at least monthly. [District Rule 2201]
33. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-2-8

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER WITH AN INDUCED FLUE GAS RECIRCULATION SYSTEM

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201]
6. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [40 CFR Part 60, Subpart Db]
7. The permittee shall comply with the emission monitoring requirements for nitrogen oxides given in 40 CFR Part 60.48b. [40 CFR Part 60, Subpart Db]
8. The permittee shall comply with the reporting requirements of 40 CFR Part 60.48b. [District Rule 4001]
9. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds in any one calendar year. [District Rule 2201]
10. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306 and 4320]
11. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301]
12. PM10 emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320]
13. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4305 and 4320]
14. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201]
15. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320]
16. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

17. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306 and 4320]
18. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320]
19. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306 and 4320]
20. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
23. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
24. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
25. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
26. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
27. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
28. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320]
29. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306 and 4320]

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

30. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320]
31. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320]
32. Records of the cumulative NOx emissions from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 for the calendar year shall be kept and shall be updated at least monthly. [District Rule 2201]
33. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-3-9

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB LOW NOX BURNER AND A FLUE GAS RECIRCULATION SYSTEM

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201]
6. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [40 CFR Part 60, Subpart Db]
7. The permittee shall comply with the emission monitoring requirements for nitrogen oxides given in 40 CFR Part 60.48b. [40 CFR Part 60, Subpart Db]
8. The permittee shall comply with the reporting requirements of 40 CFR Part 60.48b. [District Rule 4001]
9. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds in any one calendar year. [District Rule 2201]
10. NO_x emission shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306 and 4320]
11. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301]
12. PM₁₀ emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320]
13. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4305 and 4320]
14. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201]
15. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320]
16. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO_x and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320]

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

17. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306 and 4320]
18. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320]
19. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306 and 4320]
20. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
23. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
24. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
25. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
26. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
27. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
28. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320]
29. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306 and 4320]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

30. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320]
31. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320]
32. Records of the cumulative NOx emissions from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 for the calendar year shall be kept and shall be updated at least monthly. [District Rule 2201]
33. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-5-0

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

244 BHP CUMMINS MODEL 6BTA-5.9 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
2. The daily emissions limits for the engine shall not exceed the following levels : PM 10 = 12.9 pounds/day; NOx = 93.1 pounds/day; SOx = 12.0 pounds/day; CO = 39.2 pounds/day and VOC = 14.5 pounds/day. [District Rule 2201]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
8. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
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]
10. 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, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
11. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
12. If this engine is located on the grounds of a K-12 school, or if this engine is located within 500 feet of the property boundary of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, between 7:30 a.m. and 3:30 p.m. on days when school is in session. [17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If this engine is located on the grounds of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, whenever there is a school sponsored activity. [17 CCR 93115]
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 and 17 CCR 93115]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-8-4

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

205 MMBTU/HR NEBRASKA MODEL #N2S-7/S-95-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201]
6. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [40 CFR Part 60, Subpart Db]
7. The permittee shall comply with the emission monitoring requirements for nitrogen oxides given in 40 CFR Part 60.48b. [40 CFR Part 60, Subpart Db]
8. The permittee shall comply with the reporting requirements of 40 CFR Part 60.48b. [District Rule 4001]
9. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds in any one calendar year. [District Rule 2201]
10. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306 and 4320]
11. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301]
12. PM10 emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320]
13. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4305 and 4320]
14. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201]
15. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320]
16. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320]

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

17. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306 and 4320]
18. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320]
19. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306 and 4320]
20. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
23. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
24. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
25. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
26. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
27. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
28. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320]
29. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306 and 4320]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

30. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320]
31. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320]
32. Records of the cumulative NOx emissions from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 for the calendar year shall be kept and shall be updated at least monthly. [District Rule 2201]
33. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-11-2

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

90 MMBTU/HR NEBRASKA MODEL #NS-E-59 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB RAPID MIX ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201 and 40 CFR 60.48c]
6. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds in any one calendar year. [District Rule 2201]
7. NO_x emissions shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306 and 4320]
8. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301]
9. PM₁₀ emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320]
10. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4305 and 4320]
11. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201]
12. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320]
13. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO_x and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320]
14. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306 and 4320]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320]
16. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306 and 4320]
17. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320]
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
19. 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]
20. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
21. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
22. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
23. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
24. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
25. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320]
26. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4305, 4306 and 4320]
27. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320]

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

28. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320]
29. Records of the monthly fuel usage of this boiler shall be kept and shall be maintained on the premises at all times. [District Rule 2201 and 40 CFR 60.48c(g)]
30. Records of the cumulative NOx emissions from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 for the calendar year shall be kept and shall be updated at least monthly. [District Rule 2201]
31. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-12-2

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #CRMB ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201]
6. This unit is subject to the requirements of 40 CFR Part 60, Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [40 CFR Part 60, Subpart Db]
7. The permittee shall comply with the emission monitoring requirements for nitrogen oxides given in 40 CFR Part 60.48b. [40 CFR Part 60, Subpart Db]
8. The permittee shall comply with the reporting requirements of 40 CFR Part 60.48b. [District Rule 4001]
9. Permittee shall submit to the US EPA for approval a plan that identifies the operating conditions to be monitored under Section 60.48b (g)(2) and the records to be maintained under Section 60.49b (j). The plan shall be submitted to the US EPA for approval within 360 days of startup of the affected facility. [40 CFR 60.49b (c)]
10. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds in any one calendar year. [District Rule 2201]
11. NO_x emissions shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu referenced as NO₂. [District Rules 2201, 4301, 4305, 4306 and 4320]
12. SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301]
13. PM₁₀ emissions shall not exceed 0.005 lb/MMBtu. [District Rules 2201 and 4320]
14. CO emissions shall not exceed 40 ppmvd @ 3% O₂ or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4305 and 4320]
15. VOC emissions shall not exceed 10 ppmvd @ 3% O₂ or 0.0042 lb/MMBtu. [District Rule 2201]
16. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

17. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320]
18. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306 and 4320]
19. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320]
20. Source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
23. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
24. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
25. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
26. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
27. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
28. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320]
29. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320]

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

30. Records of the cumulative NOx emissions from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 for the calendar year shall be kept and shall be updated at least monthly. [District Rule 2201]
31. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-13-0

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

8.4 MMBTU/HR HURST MODEL #SA-G-200-200 NATURAL GAS-FIRED BOILER WITH AN INDUSTRIAL COMBUSTION MODEL #LNDG-1455-20 LOW NOX BURNER WITH FLUE GAS RECIRCULATION (FGR)

PERMIT UNIT REQUIREMENTS

1. The combined NO_x emissions from the boilers operating under permits to operate (PTOs) N-1326-1, -2, -3, -8, -11, -12, and -13 shall not exceed 33,333 pounds in any one calendar year. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201]
6. Maximum annual heat input of the unit shall be less than 9 billion Btu per calendar year. [District Rules 2201, 4305, and 4306]
7. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201]
8. Owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306]
9. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306]
10. Emissions rates from the natural gas-fired unit shall not exceed any of the following limits: 20 ppmv NO_x @ 3% O₂ or 0.024 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.005 lb-PM₁₀/MMBtu, 100 ppmv CO @ 3% O₂ or 0.0739 lb-CO/MMBtu, or 2 ppmv VOC @ 3% O₂ or 0.001 lb-VOC/MMBtu. [District Rules 2201, 4305, and 4306]
11. Records of monthly and annual heat input of the unit shall be maintained. [District Rules 2201, 4305, and 4306]
12. Records of the daily fuel usage by this boiler shall be maintained on the premises at all times. [District Rule 2201]
13. Records of tune-up and monitoring of the operational characteristics of the unit shall be maintained. [District Rules 4305 and 4306]
14. Records of the cumulative NO_x emissions from the boilers operating under PTOs N-1326-1, -2, -3, -8, -11, -12, and -13 for the calendar year shall be updated daily. [District Rule 2201]
15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, and 4306]

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1326-14-0

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

130 BHP DUETZ MODEL BF6M1012C TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING A 80 KW ELECTRIC GENERATOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart III]
5. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
6. Emissions from this IC engine shall not exceed any of the following limits: 6.5 g-NO_x/bhp-hr, 1.3 g-CO/bhp-hr, or 0.3 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115]
7. Emissions from this IC engine shall not exceed 0.10 g-PM₁₀/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 17 CCR 93115]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, 40 CFR Part 60 Subpart III]
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart III]
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]
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 50 hours per calendar year. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 60 Subpart III]
13. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
14. 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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15. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
16. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115]
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 and 17 CCR 93115]

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