



OCT 15 2018

Mr. Wade Ingram
Liberty Packing Company – The Morning Star Company
12045 S Ingomar Grade Rd
Los Banos, CA 93635

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: N-1399
Project Number: N-1170960

Dear Mr. Ingram:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Liberty Packing Company – The Morning Star Company at 12045 S Ingomar Grade Rd in Los Banos, California.

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

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

Sincerely,



Arnaud Marjollet
Director of Permit Services

Enclosures

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

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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation
Liberty Packing Co – The Morning Star Co
N-1399**

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TITLE V PERMIT RENEWAL EVALUATION
Tomato Processing Facility

Engineer: Sajjad Ahmad
Date: October 5, 2018

Facility Number: N-1399
Facility Name: Liberty Packing Co – The Morning Star Co
Mailing Address: 12045 S Ingomar Grade Rd
Los Banos, CA 93635

Contact Name: Wade Ingram
Phone: (209) 829-5061

Responsible Official: Wade Ingram
Title: Steam Generating Colleague

Project # : N-1170960
Deemed Complete: May 11, 2017

I. PROPOSAL

Liberty Packing Co – The Morning Star Co. (herein after called 'the facility') was issued a Title V permit on August 31, 2013. As required by District Rule 2520, the facility is requesting a permit renewal. The existing Title V permit will be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

II. FACILITY LOCATION

Liberty Packing Co. – The Morning Star Co. is located at 12045 S. Ingomar Grade Road, Los Banos, in Merced County, CA.

III. EQUIPMENT LISTING

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

IV. GENERAL PERMIT TEMPLATE USAGE

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

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

The applicant has requested to utilize template No. SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

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

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

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

Conditions 1 through 40 of the requirements for permit unit N-1399-0-2.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated or Evaluated

- District Rule 2020, Exemptions (amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended February 18, 2016)
- District Rule 4702, Internal Combustion Engines (amended November 14, 2013)
- 40 CFR Part 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (amended February 27, 2014)
- 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (amended July 7, 2016, effective September 6, 2016)
- 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended February 27, 2014)
- 40 CFR Part 64, Compliance Assurance Monitoring (amended October 10, 1997)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended June 25, 2013)¹
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction (amended November 18, 2016)¹

B. Rules Removed

There are no applicable rules that were removed since the initial Title V was issued.

¹ These subparts were amended since the issuance of TV permit. However, the amendments to these subparts do not have any effect on existing permit requirements as addressed by conditions 27 and 28 of the requirements of the facility-wide permit N-1399-0-2 on the draft renewed permit.

C. Rules Added

There are no applicable new rules that were added since the initial Title V was issued.

D. Rules Not Updated

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- 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)
- District Rule 2410, Prevention of Significant Deterioration (adopted June 16, 2011)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (amended December 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, Advance Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr (amended October 16, 2008)
- District Rule 4601, Architectural Coatings (amended December 17, 2009)
- District Rule 4702, Internal Combustion Engines (amended November 14, 2013)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- District Rule 8011, General Requirements (amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

A. Rules Added/Updated

None

B. Rules Not Updated

- District Rule 4102, Nuisance (as amended December 17, 1992)
- Title 17 CCR 93115, Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines (amended May 19, 2011)

VIII. PERMIT REQUIREMENTS

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

A. District Rule 2020 - Exemptions

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

B. District Rule 2201 - New and Modified Stationary Source Review Rule (NSR)

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

C. District Rule 4702 - Internal Combustion Engines

Permit Units N-1399-11 and '-21 (diesel-fired emergency IC engines):

The purpose of this rule is to limit the emissions of nitrogen oxides (NOx), carbon monoxide (CO), volatile organic compounds (VOC), and sulfur oxides (SOx) from internal combustion (IC) engines. This rule applies to any IC engine rated at 25 brake horsepower or greater.

Only two permit units at this facility are subject to Rule 4702. Permit unit N-1399-11-2 is an emergency diesel-fired IC engine powering a firewater pump, whereas permit unit '-21-2 is for an emergency standby diesel-fired IC engine powering an electrical generator. The last amendments of Rule 4702 do not affect emergency IC engine requirements. Since these are emergency IC engines, the last amendment of the rule will not be addressed in this evaluation.

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

The following sections of Subpart Db were amended on February 27, 2014 after initial Title V permit was issued:

- §60.46b – Compliance and performance test methods and procedures for particulate matter and nitrogen oxides, and
- §60.47b – Emission monitoring for sulfur dioxide.

However, these amended sections do not apply to natural gas-fired boilers permitted at the facility. Therefore, amendments to the Subpart Db do not affect boiler permits of the facility and will not be address in this evaluation.

E. 40 CFR 60, Subpart IIII – New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines

Permit Units N-1399-11 and '-21 (diesel-fired emergency IC engines):

New Source Performance Standards (NSPS) from Part 60, Chapter 1, Title 40 of Code of Federal Regulations (CFR) apply to all new sources of air pollution and modifications of existing sources of air pollution listed in 40 CFR Part 60.

Applicability of Subpart IIII

Section 60.4200(a)(2)(i) states that the provisions of this subpart apply to owners and operators of stationary compression ignition (CI) internal combustion engines that commence construction after July 11, 2005, where the engines are:

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

IC engine under permit N-1399-11 is a fire pump engine that was manufactured and installed at the facility prior to April 1, 2006; therefore, this IC engine is not subject to 40 CFR 60 Subpart IIII and instead it is subject to 40 CFR 63, Subpart ZZZZ.

Permit Unit N-1399-21 (389 bhp Tier 3 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator):

This emergency standby IC engine powers an electric generator and was installed at the facility in July 2008. Thus it was installed after July 11, 2005 and was manufactured after April 1, 2006, so it is subject to 40 CFR 60 Subpart IIII pursuant to §60.4200(a)(2)(i) as referenced above.

In addition, pursuant to Section 63.6590(c) of 40 CFR 63 Subpart ZZZZ this engine needs only to comply with the requirements of Subpart IIII in order to achieve compliance with Subpart ZZZZ.

Therefore, below is a discussion of 40 CFR Subpart IIII applicable to permit unit '-21 only.

Sections 60.4201, 60.4202, and 60.4203 apply to manufacturers of engines; therefore, these sections are not applicable to engine under permit '-21.

Emission Standards for Owners and Operators

§60.4205(b) states that owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

Engine under PTO '-21 is a 2007 model engine and has a displacement less than 30 liters; therefore, it must comply with the emission standards of §60.4202. This means that the engine shall be Tier 3 certified in accordance with 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007. This ICE is a model year 2007 engine and is Tier 3 certified in accordance with 40 CFR 89.112 and 89.113; therefore, this ICE is currently in compliance with Subpart IIII applicable emissions limits. The following condition will be listed on the proposed PTO '-21-3 with a reference of Subpart IIII to ensure continued compliance:

- Emissions from this IC engine shall not exceed any of the following limits: 2.37 g-NOx/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR 60 Subpart IIII]

§60.4206 states that owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §60.4204 and 60.4205 over the entire life of the engine.

The following condition listed on the proposed PTO '-21-3 will ensure compliance with this requirement:

- This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII]

Fuel Requirements for Owners and Operators

§60.4207(b) states that beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

40 FR Part 80 – Regulation of Fuels and Fuel Additives, §80.510(b) states that beginning June 1, 2010, except as otherwise specifically provided in this subpart, all NR (nonroad) and LM (locomotive or marine) diesel fuel is subject to the following per-gallon standards:

(1) Sulfur content.

- (i) 15 ppm maximum for NR diesel fuel.
- (ii) 500 ppm maximum for LM diesel fuel.

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

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

CARB certified diesel fuel meets these requirements; therefore, these requirements are ensured by condition #6 of current PTO '-21-2. This condition will be included on the proposed PTO '-21-3 as follows to ensure continued compliance:

- Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801; 17 CCR 93115 and 40 CFR 60 Subpart IIII]

Other Requirements for Owners and Operators

§60.4208(a) thru (g) apply to engines installed after December 31, 2008 and beyond. The model year of the engine permitted under PTO '-21-2 is 2007 and the facility installed this engine in July 2008; therefore, requirements of these sections are not applicable.

§60.4209(a) states that if you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

The engine is already equipped with a non-resettable hour meter and this requirement is currently incorporated into the Title V Permit through condition #7 of current PTO '-21-2. This condition will be included as follows on the proposed PTO '-21-3 with a reference of Subpart IIII:

- This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII]

Compliance Requirements

§60.4211(a) states that if you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

The requirements of §60.4211(a)(1) and (a)(2) are incorporated into the Title V Permit through condition #11 of current PTO '-21-2. No change is proposed to this condition and this condition will be included on the proposed PTO '-21-3 with Subpart IIII reference as follows:

- This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII]

Since the engine under PTO '-21-2 is an EPA Tier 3 certified engine, it meets the requirements of §60.4211(a)(3).

§60.4211(b) applies to pre-2007 model year stationary CI internal combustion engines. Since engine under PTO '-21-2 is 2007 model year, this section does not apply to this engine.

§60.4211(c) states that if you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section. Since the engine under PTO '-21-2 is an EPA Tier 3 certified engine, it meets the requirements of §60.4211(c).

§60.4211(f) states that if you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

- (1) There is no time limit on the use of emergency stationary ICE in emergency situations.
- (2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
 - (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
 - (ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

- (iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
 - (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
 - (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

Therefore, the following condition will be included on the proposed PTO '-10-3 with a reference of Subpart IIII as follows for continued compliance:

- 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 60 Subpart IIII]

Testing Requirements for Owners and Operators

§60.4212 states the test methods and other procedures for owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder, who must conduct performance tests in order to demonstrate compliance with the application emission limits of Subpart IIII.

Since the engine permitted under PTO '-21-2 is an EPA Tier 3 certified engine, the facility is not required to conduct performance tests in order to demonstrate compliance with the emissions limits of Subpart IIII. Therefore, §60.4212 does not apply.

Notification, Reporting, and Recordkeeping for Owners and Operators

§60.4214(a) applies to non-emergency engines, thus this section is not applicable to this engine.

§60.4214(b) states that if the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

For 389 bhp engine, the starting model year in Table 5 is 2011. The applicable standard in 2011 for non-emergency engines of 389 bhp power range was Tier 4I. Since this is a Tier 3 certified engine, it does not meet the standard applicable to non-emergency engines. Therefore, the records are required for emergency and non-emergency operation of the engine and the following condition will ensure compliance with these requirements:

- The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR 60 Subpart IIII]

No other sections of Subpart IIII are applicable to this engine. Therefore, compliance with Subpart IIII is expected.

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

Permit Units N-1399-11 and '-21 (diesel-fired emergency IC 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.

Permit units N-1399-11 and '-21 are for emergency diesel-fired IC engines and the amendments to the Subpart do not have any effect on the permit requirements for these engines. Therefore, there is no need to address the amendments to this Subpart in this evaluation.

In addition, §63.6590(c)(1) states that an affected source that is a new stationary RICE located at an area source must meet the requirements of this part by meeting the requirements of 40 CFR part 60 Subpart IIII for compression ignition engines. Permit units N-1399-21 meets the requirements of 40 CFR part 60 Subpart IIII as discussed earlier. Therefore, this RICE complies with Subpart ZZZZ.

G. 40 CFR Part 64 - Compliance Assurance Monitoring

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

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

Pollutant	Major Source Threshold (lb/year)
NO _x	20,000
SO _x	140,000
PM ₁₀	140,000
CO	200,000
VOC	20,000

The facility's permits, except permit units N-1399-24, '-26, and '-29, were evaluated for CAM purposes during the issuance of the initial Title V permit. In addition, ATC N-1399-17-6 was issued to correct burner rating of unit '-17 from 260 MMBtu/hr to 263 MMBtu/hr; therefore, this unit will be evaluated for CAM. Therefore, the following CAM discussion will only address the four permit units not previously evaluated for CAM:

- a. N-1399-17-7: 263 MMBTU/HR NEBRASKA MODEL N2S-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD-COMBUSTION MODEL DRMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (BOILER NO. 1) WITH PREDICTIVE EMISSIONS MONITORING SYSTEM

The boiler is equipped with 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).

The boiler is currently operating in compliance with Rule 4320 and therefore is required to meet the NO_x emissions limit of 0.008 lb/MMBtu (7 ppmv @3% O₂). The boiler has a fuel heat input limit of 1,059,019 MMBtu .

To assess whether CAM is triggered the emissions factor corresponding to pre add-on (FGR) is calculated using the following table.

AP-42 Table 1.4-1 (7/98) lists the following emissions factors for large boilers > 100 MMBtu/hr

Combustor Type	Emissions Factor (lb/10 ⁶ scf)
Uncontrolled Post-NSPS	190
Controlled – low NOx burners	140
Controlled – Low NOx burners/FGR	100

The control efficiency of FGR and corresponding emissions factor without FGR are

$$100 \times (140 - 100)/140 = 28\%$$

$$0.008/(1 - 0.28) = 0.011 \text{ lb/MMBtu}$$

and the pre add-on control emissions are

$$0.011 \text{ lb/MMBtu} \times 1,059,019 \text{ MMBtu/yr}$$

$$= \mathbf{11,649 \text{ lb-NOx/yr} < \mathbf{20,000 \text{ lb-NOx/yr}}$$

Therefore, the boiler is not subject to CAM.

- b. N-1399-24-3: 458.5 MMBTU/HR CLEAVER BROOKS MODEL NB-ED-110 BOILER EQUIPPED WITH A COEN MODEL VARIFLAME LOW NOX BURNER INDUCED FLUE GAS RECIRCULATION SERVED BY A CADASTACK (OR OTHER MANUFACTURER) SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH PREDICTIVE EMISSIONS MONITORING SYSTEM

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

The boiler is currently operating in compliance with Rule 4320 and therefore is required to meet the NOx emissions limit of 0.0062 lb/MMBtu (5 ppmv @3% O₂). The boiler has a fuel heat input limit of 1,271,700 MMBtu/yr.

To assess whether CAM is triggered the emissions factor corresponding to pre add-on (FGR) is calculated using the following table.

AP-42 Table 1.4-1 (7/98) lists the following emissions factors for large boilers > 100 MMBtu/hr

Combustor Type	Emissions Factor (lb/10 ⁶ scf)
Uncontrolled Post-NSPS	190
Controlled – Low NOx burners	140
Controlled – Low NOx burners/FGR	100

The control efficiency of FGR and corresponding emissions factor without FGR are

$$100 \times (140 - 100)/140 = 28\%$$

$$0.0062/(1 - 0.28) = 0.0086 \text{ lb/MMBtu}$$

and the pre add-on control emissions are

$$0.0086 \text{ lb/MMBtu} \times 1,271,700 \text{ MMBtu/yr}$$

$$= \mathbf{10,937 \text{ lb-NOx/yr} < \mathbf{20,000 \text{ lb-NOx/yr}}$$

Therefore, the boiler is not subject to CAM.

Additionally, this unit is not subject to CAM for NOx emissions since it is equipped with Predictive Emission Monitoring System (PEMS) for this pollutant.

- c. N-1399-26-2: WOOD BIN/WOOD PALLET MANUFACTURING OPERATION INCLUDING ONE RIP/CROSS CUT SAW, ONE NOTCHER, ONE GANG DRILL SYSTEM, AND ONE CABINET SAW ALL SERVED BY A 9,000 CFM DONALDSON TORIT MODEL 81FT8 DUST COLLECTOR SYSTEM

This operation involves with PM₁₀ emissions only and is equipped with a dust collector system to control PM₁₀ emissions. The operation may be subject to CAM for PM₁₀ since it has a dust collector system that is an add-on control for PM₁₀. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for PM₁₀ (140,000 lb/yr).

$$\text{Controlled PE} = 183 \text{ lb-PM}_{10}/\text{yr (current PTO)}$$

With a typical dust collector control efficiency of 99%, pre-control PM₁₀ emissions can be calculated as follows:

$$\begin{aligned} \text{Pre-Control PE} &= \text{Controlled PE} / (1 - 0.99) \\ &= 183 \text{ lb-PM}_{10}/\text{yr} / (1 - 0.99) \\ &= 18,300 \text{ lb-PM}_{10}/\text{yr} \end{aligned}$$

The Major Source threshold for PM₁₀ is 140,000 lb-PM₁₀/yr. Since this unit does not have a pre-control potential to emit greater than Major Source threshold for PM₁₀; CAM is not applicable to this unit.

- d. N-1399-29-2: SAW STOP HEAVY DUTY 10" TABLE SAW MODEL ICS53230-52 SERVED BY ONEIDA AIR SYSTEMS 634 CFM DUST COLLECTOR

This operation involves with PM₁₀ emissions only and is equipped with a dust collector to control PM₁₀ emissions. The operation may be subject to CAM for PM₁₀ since it has a dust collector that is an add-on control for PM₁₀. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for PM₁₀ (140,000 lb/yr).

As calculated in project N-1151671:

$$\begin{aligned} \text{Emission Factor} &= 0.0004 \text{ gr-PM}_{10}/\text{dscf} \\ \text{Air Flow Rate} &= 834 \text{ cfm} \\ \text{Operation} &= 24 \text{ hr/day and 365 day/yr (worst case)} \end{aligned}$$

$$\begin{aligned} \text{Daily PE} &= (0.0004 \text{ gr-PM}_{10}/\text{dscf})(634 \text{ cf/min})(1,440 \text{ min/day})(\text{lb}/7,000 \text{ gr}) \\ &= 0.1 \text{ lb-PM}_{10}/\text{day} \end{aligned}$$

$$\begin{aligned} \text{Controlled Annual PE} &= 0.1 \text{ lb/day} \times 365 \text{ days/yr} \\ &= 37 \text{ lb-PM}_{10}/\text{yr} \end{aligned}$$

With a typical dust collector control efficiency of 99%, pre-control PM₁₀ emissions can be calculated as follows:

$$\begin{aligned}\text{Pre-Control PE} &= \text{Controlled PE} / (1 - 0.99) \\ &= 37 \text{ lb-PM}_{10}/\text{yr} / (1 - 0.99) \\ &= 3,700 \text{ lb-PM}_{10}/\text{yr}\end{aligned}$$

The Major Source threshold for PM₁₀ is 140,000 lb-PM₁₀/yr. Since this unit does not have a pre-control potential to emit greater than Major Source threshold for PM₁₀; CAM is not applicable to this unit.

H. 40 CFR Part 82, Subpart B - Servicing of Motor Vehicle Air Conditioners

The purpose of 40 CFR Part 82, Subpart B is to implement section 609 of the Clean Air Act (CAA) regarding the servicing of motor vehicle air conditioners (MVACs), and to implement section 608 of the CAA regarding certain servicing, maintenance, repair and disposal of air conditioners in MVACs and MVAC-like appliances (as that term is defined in 40 CFR 82.152). This Subpart applies to any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner.

Sections of this Subpart were amended in 2013 after the issuance of the initial Title V Permit. However, the amendments to this Subpart do not have any effect on existing permit requirements as addressed by condition 28 of the requirements of the facility-wide permit N-1399-0-2 on the draft renewed permit.

I. 40 CFR Part 82, Subpart F - Recycling and Emissions Reduction

The purpose of 40 CFR Part 82, Subpart F is to reduce emissions of class I and class II refrigerants and their non-exempt substitutes to the lowest achievable level by maximizing the recapture and recycling of such refrigerants during the maintenance, service, repair, and disposal of appliances and restricting the sale of refrigerants consisting in whole or in part of a class I or class II ozone-depleting substance or their non-exempt substitutes in accordance with Title VI of the Clean Air Act.

Sections of this Subpart were amended in 2016 after the issuance of the initial Title V Permit. However, the amendments to this Subpart do not have any effect on existing permit requirements as addressed by condition 27 of the requirements of the facility-wide permit N-1399-0-2 on the draft renewed permit.

IX. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

1. Model General Permit Template SJV-UM-0-3

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template is included as conditions 39 and 40 of the facility-wide requirements (N-1399-0-2).

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested any additional permit shields.

C. Obsolete Permit Shields From Existing Permit Requirements

There are no obsolete permit shields from the existing permit requirements.

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

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

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

XI. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

ATTACHMENTS

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Summary List of Facility Permits

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-1399-0-2

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, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: LIBERTY PACKING CO - THE MORNING STAR CO
Location: 12045 S INGOMAR GRADE RD, LOS BANOS, CA 93635
N-1399-0-2, Oct 5 2016 4:19PM -- AHMADS

9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-4-5

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

220 MMBTU/HR NEBRASKA MODEL N-25-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD-COMBUSTION MODEL DRMB BURNER AND FLUE GAS RECIRCULATION (BOILER NO. 3)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The combined natural gas usage of units N-1399-4 and N-1399-5 shall not exceed 1,056,019 MMBtu during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The CO emissions shall not exceed 25 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
8. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. 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
13. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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
15. 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
16. 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
17. 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
18. 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
19. The flue gas recirculation valve(s) setting shall be monitored on at least 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
20. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units 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
21. 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
22. 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
23. 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 District Rule 4320. [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 the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. A record of the cumulative annual fuel usage of units N-1399-4 and N-1399-5 shall be kept. The record shall be on a rolling 12 month period, shall be in the terms of Btu's and shall be updated at least weekly. [District Rule 1070] 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, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
30. The NOx emission limit (as NO₂) shall not exceed 0.20 lb/MMBtu. [40 CFR 60.44b(a)(1)(ii)] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. 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
34. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-5-5

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

220 MMBTU/HR NEBRASKA MODEL N-25-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD-COMBUSTION MODEL DRMB BURNER AND FLUE GAS RECIRCULATION (BOILER NO. 4)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The combined natural gas usage of units N-1399-4 and N-1399-5 shall not exceed 1,056,019 MMBtu during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The CO emissions shall not exceed 25 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
8. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. 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
13. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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] Federally Enforceable Through Title V Permit
15. 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
16. 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
17. 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
18. 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
19. The flue gas recirculation valve(s) setting shall be monitored on at least 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
20. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units 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
21. 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
22. 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
23. 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 District Rule 4320. [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 the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. A record of the cumulative annual fuel usage of units N-1399-4 and N-1399-5 shall be kept. The record shall be on a rolling 12 month total basis, shall be in the terms of Btu's and shall be updated at least weekly. [District Rule 1070] 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, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
30. The NOx emission limit (as NO₂) shall not exceed 0.20 lb/MMBtu. [40 CFR 60.44b(a)(1)(ii)] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. 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
34. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-11-3

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

94 BHP JOHN DEERE MODEL JU4H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
2. A record of the facility-wide NOx emissions (in pounds), on a rolling 12 month period, shall be kept. The records shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This engine shall not be used to reduce the demand for electrical power when the electrical power line service has not failed, to produce power for the electrical distribution system, or as part of a voluntary utility demand reduction program or interruptible power contract. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. NOx emissions from this engine shall not exceed 6.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. VOC emissions from this engine shall not exceed 0.29 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. CO emissions from this engine shall not exceed 0.2 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. PM10 emissions from this engine shall not exceed 0.04 g/hp-hr based on U.S. EPA certification using test procedure ISO 8178. [District Rule 2201] Federally Enforceable Through Title V Permit
9. {1898} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
10. 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
11. 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
12. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. 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
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, 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
15. 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] Federally Enforceable Through Title V Permit
16. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 40 CFR 63.6660, and 17 CCR 93115] Federally Enforceable Through Title V Permit
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-13-5

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

180 MMBTU/HR NEBRASKA MODEL N2S-7-95 NATURAL GAS-FIRED BOILER WITH A TODD COMBUSTION MODEL RMB ULTRA LOW NOX BURNER, INDUCED FLUE GAS RECIRCULATION AND A ROSEMOUNT OXYGEN CONTROLLER (BOILER NO. 2)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 30 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
11. 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
12. 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
13. 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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
15. 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
16. 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
17. 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
18. The flue gas recirculation rate shall be determined at least on a weekly basis by measuring the stack O₂% by volume (O_s), and windbox O₂% by volume (O_w) using the following equation: $FGR \text{ rate} = \{O_w - 20.9\} / \{O_s - 20.9\} \times 100\%$. 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
19. The minimum flue gas recirculation rate 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 no lower than the minimum flue gas recirculation rate with which compliance with applicable NO_x and CO emission limits has been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. If the flue gas recirculation rate is less than the normal range/level, the permittee shall return the flue gas recirculation rate to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation rate 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 rate. 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
21. The permittee shall maintain records of the date and time of oxygen concentration measurements, the measured oxygen concentrations, the calculated flue gas recirculation rate, and the firing rate at the time of the oxygen concentration measurements. The records shall also include a description of any corrective action taken to maintain the flue gas recirculation rate within the acceptable range. [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 District Rule 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. During the 36-month source-testing interval, the owner/operator shall have the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 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.

24. 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
25. 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
26. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month period and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
27. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
28. The NOx emission limit (as NO₂) shall not exceed 0.20 lb/MMBtu. [40 CFR 60.44b(a)(1)(ii)] Federally Enforceable Through Title V Permit
29. 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
30. 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
31. 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
32. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-16-4

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

TOMATO ROASTING AND SMOKING OPERATION CONSISTING OF ONE 10 MMBTU/HR FEMCO MODEL 26010 60" WIDE TOMATO ROASTER, ONE SMOKE CHAMBER WITH A 13.0 KW ELECTRIC SMOKE GENERATOR, AND ASSOCIATED CONVEYING EQUIPMENT

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. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Visible emissions from the smoke chamber shall not exceed either Ringelmann 1/4 or 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
4. If the smoker exhibits visible emissions of Ringelmann 1/4 or 5% opacity or greater for a period or periods aggregating more than three minutes in any one hour, compliance testing for particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The tomato roaster shall be operated on natural gas only. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The burner shall be operated within manufacturer's specifications to minimize NOx emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The NOx emissions from the tomato roaster shall not exceed 0.0364 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The CO emissions from the tomato roaster shall not exceed 0.369 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions from the tomato roaster shall not exceed 0.0076 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The VOC emissions from the tomato roaster shall not exceed 0.0055 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The SOx emissions from the tomato roaster shall not exceed 0.00285 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Operating schedule shall not exceed 90 days per year. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The PM10 emission rate from the smoke chamber shall not exceed 0.00625 pounds per pound of wood chips & sawdust burned in the smoke generator. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The VOC emission rate from the smoke chamber shall not exceed 0.00835 pounds per pound of wood chips & sawdust burned in the smoke generator. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The quantity of wood chips and sawdust burned in the smoke generator shall not exceed 240 pounds in any one day. [District Rule 2201] 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 results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Permittee shall maintain a daily record which consists of the following information: (a) The date the tomato roaster and/or the smoke chamber is operated; (b) The daily quantity of wood chips & sawdust burned in the smoke generator (in pounds per day); (c) The cumulative quantity of wood chips & sawdust burned in the smoke generator during each calendar year (in pounds). [District Rules 2201 and 1070] Federally Enforceable Through Title V Permit
19. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-17-7

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

263 MMBTU/HR NEBRASKA MODEL N2S-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD-COMBUSTION MODEL DRMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (BOILER NO. 1) WITH PREDICTIVE EMISSIONS MONITORING SYSTEM

PERMIT UNIT REQUIREMENTS

1. 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] Federally Enforceable Through Title V Permit
2. The facility-wide NOx emissions shall not exceed 33,705 pounds during any 12 consecutive month rolling period. [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. The unit shall only be fired on PUC-quality natural gas with a sulfur content of no greater than 1.0 grains (gr) of sulfur per 100 standard cubic feet (scf) of natural gas. [District Rules 2201 and 4320; and 40 CFR 60.42b9k)(1)(2)] 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 installed, utilized and maintained. [District Rule 2201 and 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
6. Heat input to this unit shall not exceed either of the following: 260 MMBtu/hr and 1,059,019 MMBtu during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
7. During start-up or shutdown, the emissions control system (i.e. FGR system) shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
8. The startup duration shall not exceed 2.0 hours per day. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
9. The shutdown duration shall not exceed 1.0 hour per day. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
10. The total duration of startups and shutdowns shall not exceed 41 hours during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
11. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
12. PM10 emissions shall not exceed 0.0074 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
13. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu, referenced as methane. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The owner or operator shall certify, maintain, operate and quality-assure a Predictive Emission Monitoring System (PEMS) which continuously predicts and records the exhaust gas NO_x, CO and O₂ concentrations. Predictive emissions monitor(s) shall be capable of predicting emissions during normal operating conditions, and during startups and shutdowns provided the PEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of PEMS cannot be demonstrated during startup conditions, PEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this permit. [District Rules 2201 and 4320; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
15. During startup and shutdown, NO_x emissions shall not exceed 30.0 ppmvd @ 3% O₂ or 0.036 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320; and 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
16. During startup and shutdown, CO emissions shall not exceed 200 ppmvd @ 3% O₂ or 0.148 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320; and 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
17. Except during startup and shutdown, NO_x emissions shall not exceed 7 ppmvd @ 3% O₂ or 0.008 lb/MMBtu, referenced as NO₂ over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320; and 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
18. Except during startup and shutdown, CO emissions shall not exceed 50 ppmvd @ 3% O₂ or 0.037 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320; and 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
19. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. 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
21. Permittee shall perform a relative accuracy audit (RAA) consisting of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. The average of the 3 portable analyzer (RM) determinations must not differ from the simultaneous PEMS average value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [District Rules 2201, 4702 and 40 CFR Subpart GG] Federally Enforceable Through Title V Permit
22. PEMS relative accuracy for NO_x and CO shall be determined during startup and shutdown source testing in accordance with 40 CFR 60, Appendix F (Relative Accuracy Audit). [District Rule 2201] Federally Enforceable Through Title V Permit
23. Source testing to measure NO_x and CO emissions during steady state operation shall be conducted at least once every 12 months. After demonstrating compliance on 2 consecutive annual source tests, the unit shall be tested not less than once every 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 12 months. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
25. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. 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
27. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320] Federally Enforceable Through Title V Permit
28. 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
29. 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 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
30. 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
31. 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
32. 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. The portable analyzer results will be compared to the PEMS data. The average emissions value measured with calibrated portable analyzer must not differ from the simultaneous PEMS average emissions value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
33. The permittee shall maintain records of the date and time of NO_x, CO, and O₂ measurements, the measured NO₂ and CO concentrations corrected to 3% O₂, and the O₂ concentration. The records must also include a description of any corrective action taken to maintain the emissions within the acceptable range. These records shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
34. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the PEMS. [40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
35. The PEMS shall be operated and data recorded during all periods of operation except for PEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)] Federally Enforceable Through Title V Permit
36. The PEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour or shall meet equivalent specifications established by mutual agreement of the District, the CARB and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
37. Permittee shall perform Relative Accuracy Test Audits (RATA) and Relative Accuracy Audit (RAA). RATA must not exceed +/- 20 percent absolute mean difference or 10 percent of applicable standard. For diluent PEMS, an alternative criterion of ±1 percent absolute difference between the PEMS and RM may be used if less stringent. The RAA shall consist of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. The average of the 3 portable analyzer (RM) determinations must not differ from the simultaneous PEMS average value by more than 10 percent of the analyzer or RM value for concentrations greater than 100 ppmv or 20% for concentrations between 100 and 20 ppmv or the test is failed. For measurements at 20 ppmv or less, this difference shall not exceed 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
38. The NO_x, CO and O₂ PEMS shall meet the requirements in 40 CFR 60, Appendix B, Performance Specification 16 (PS 16) or shall meet equivalent specifications established by mutual agreement of the District, the CARB, and the EPA. [District Rules 1080, 2201, 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.

39. The PEMS sensor evaluation system shall check the integrity of each input at least once per day. [District Rule 1080] Federally Enforceable Through Title V Permit
40. If PEMS fails to pass a quarterly RAA or yearly RATA test, or if changes are made that could result in a significant change in the emissions rate (e.g. turbine aging, process modification, new process operating modes, or changes to emission controls) the PEMS must be recertified by the earlier of 30 operating days or 180 calendar days after the failed RATA or after the change that has caused a significant change in emission rate as specified in PS-16, Section 8.5. [District Rules 2201, 4702 and 40 CFR Subpart GG] Federally Enforceable Through Title V Permit
41. The facility shall conduct a RATA at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the predictive emission monitor equipment in accordance with the procedures and guidance specified in as specified by 40 CFR Part 60, Appendix B Performance Specification 16. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
42. PEMS must be audited at least once each calendar quarter, by relative accuracy audits (RAA) except during quarters in which a RATA is performed, in accordance with EPA guidelines. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
43. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly RATA in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. If a quarterly audit is missed due to the unit not operating, the audit shall be conducted in the next operating quarter. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, the operator must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
44. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
45. The PEMS data shall be reduced to hourly averages as specified in 40 CFR 60.13(h), or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
46. Upon written notice from the District, the owner or operator shall provide a summary of the data obtained from the PEMS. This summary shall be in the form and the manner prescribed by the District. [District Rule 1080] Federally Enforceable Through Title V Permit
47. The facility shall install and maintain equipment, facilities, and systems compatible with the District's PEMS data polling software system and shall make PEMS data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
48. Upon notice by the District that the facility's PEMS is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the PEMS data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
49. The permittee shall maintain the following records for PEMS equipment: (1) Date, time and duration of any malfunction; (2) Date of performance testing; (3) Date of evaluations, calibrations, checks, and adjustments; and (4) Date and time period for which PEMS was inoperative. [District Rule 1080] Federally Enforceable Through Title V Permit
50. The owner or operator shall submit the performance test data and the performance evaluation of the PEMS using performance specification PS16 for PEMS certification in 40 CFR Part 60. [40 CFR 60] Federally Enforceable Through Title V Permit
51. An O&M manual containing detailed system requirements shall be prepared and submitted for approval along with the monitoring plan required under 40 CFR 60.49b(c). [40 CFR 60.49b(c)] 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.

52. For 40 CFR Part 60 Subpart Db purpose, NOx emissions shall not exceed 0.1 lb/MMBtu for low heat release units (70,000 Btu/hr-ft³ of furnace volume or less) and 0.2 lb/MMBtu for high heat release units (greater than 70,000 Btu/hr-ft³ of furnace volume) on a 30-day rolling average basis. NOx standard shall apply at all times including periods of startup, shutdown, or malfunction. The permittee shall maintain record of the furnace volume, which is defined as the volume bounded by the front furnace wall where the burner is located, the furnace side waterfall, and extending to the level just below or in front of the first row of convection pass tubes. [40 CFR 60.44b(a), 60.44b(h), and 60.44b(i)] Federally Enforceable Through Title V Permit
53. Following the initial compliance test, the operator shall determine compliance with the NOx standard under 40 CFR 60.44 (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)) on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(3)] Federally Enforceable Through Title V Permit
54. The 1-hour average NOx emission rates measured by the continuous NOx monitor shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)). The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)] Federally Enforceable Through Title V Permit
55. When NOx data are not obtained because of PEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7 of Appendix A of Part 60, Method 7A of Appendix A of Part 60, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. [40 CFR 60.48b(f)] Federally Enforceable Through Title V Permit
56. The owner or operator shall maintain records of the amount of fuel combusted during each day in this unit. [District Rule 2201 and 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
57. The owner or operator shall maintain records of the annual capacity factor on a monthly basis. The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
58. The owner or operator shall either obtain fuel receipts (such as a valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the gaseous fuel meets definition of natural gas (as defined in 40 CFR 60.41b) and the applicable sulfur limit (i.e., 1.0 gr-S/100 scf), or demonstrate that the combusted gas is provided from a PUC or FERC regulated source, or monitor the sulfur content within 60 days of initial startup and weekly thereafter. If the sulfur content is less than or equal to 1.0 gr/100 dscf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks. [District Rule 4320; and 40 CFR 60.45b(j) and 60.49b(r)(2)] 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.

59. The owner or operator shall maintain records and submit a written report each calendar quarter to the District containing the following information for each steam generating unit operating day: (1) Calendar date; (2) The average hourly NO_x and CO emission rates (expressed as NO₂) (ppmvd @ 3% O₂ and lb/MMBtu heat input) measured or predicted; (3) 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; (4) 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 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)), with the reasons for such excess emissions as well as a description of corrective actions taken; (5) Identification of the steam generating unit operating days when the average hourly NO_x and CO emission rates are in excess of the NO_x and CO limits (startup, shutdown and steady state) in this permit, with the reason for such excess emissions as well as a description of corrective actions taken; (6) 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; (7) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; (8) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; (9) Identification of the times when the pollutant concentration exceeded full span of the PEMS; (10) Description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16; (11) Results of daily PEMS drift tests and quarterly accuracy assessments as required under Appendix F, Procedure 1 of Part 60; and (11) A negative declaration when no excess emissions occurred. The report is due on the 30th day following the end of the calendar quarter. [District Rules 1080, 2201, 4305, 4306 and 4320; 40 CFR 60.49b(g), 40 CFR 60.49b(i), and 40 CFR 60.49b(w)] Federally Enforceable Through Title V Permit
60. The owner or operator of an affected facility may submit electronic quarterly reports in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the District. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this permit was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the District to obtain their agreement to submit reports in this alternative format. [District Rule 1080 and 40 CFR 60.49b(v)] Federally Enforceable Through Title V Permit
61. The owner or operator shall keep records of the date, duration of each startup (hours), and duration of each shutdown (hours). [District Rule 2201] Federally Enforceable Through Title V Permit
62. The owner or operator shall keep records of the total duration of startups and shutdowns (hours) on a rolling 12 consecutive month total basis, and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
63. The owner or operator shall keep record of the facility-wide NO_x emissions (in pounds). The record shall be on a rolling 12 consecutive month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
64. The owner or operator shall keep record of the annual heat input to this unit (in MMBtu). The record shall be kept on a rolling 12 consecutive month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
65. The owner or operator shall maintain all records of required monitoring data and support information for a period of five years from the date of data entry and shall make such records available to the District upon request. [District Rules 1070, 2201, 4305, 4306, and 4320; and 40 CFR 60.49b(o)] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-20-5

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

36 MMBTU/HR NEBRASKA MODEL NS-C-S-42 NATURAL GAS-FIRED BOILER WITH A URS MODEL MRMB-4-36 ULTRA LOW NOX BURNER, INDUCED FLUE GAS RECIRCULATION AND A ROSEMOUNT OXYGEN CONTROLLER (BOILER NO. 5)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 50 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
11. 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
12. 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
13. 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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
15. 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
16. 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
17. 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
18. The flue gas recirculation valve(s) setting shall be monitored on at least 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
19. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units 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
20. 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
21. 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
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 District Rule 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. During the 36-month source-testing interval, the owner/operator shall have the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
24. 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
25. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month period and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
27. A monthly record of the amount of fuel burned by this unit, in Btu's, shall be kept. [40 CFR Part 60.48c(g)(2)] 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, 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-1399-21-3

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

389 BHP IVECO MODEL CURSOR78 TE2X TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

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 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
3. {1898} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. Emissions from this IC engine shall not exceed any of the following limits: 2.37 g-NOx/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed 0.097 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 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 and 4801; 17 CCR 93115 and 40 CFR 60 Subpart IIII] 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 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. 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
9. 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 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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, 17 CCR 93115 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-24-3

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

458.5 MMBTU/HR CLEAVER BROOKS MODEL NB-ED-110 BOILER EQUIPPED WITH A COEN MODEL VARIFLAME LOW NOX BURNER INDUCED FLUE GAS RECIRCULATION SERVED BY A CADASTACK SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)

PERMIT UNIT REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100] Federally Enforceable Through Title V Permit
3. The facility-wide NOx emissions shall not exceed 33,705 pounds during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
6. The unit shall only be fired on PUC-quality natural gas with a sulfur content of no greater than 1.0 grains (gr) of sulfur per 100 standard cubic feet (scf) of natural gas. [District Rules 2201 and 4320, 40 CFR 60.42b9k)(1)(2)] Federally Enforceable Through Title V Permit
7. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201, 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
8. Heat input to this unit shall not exceed 1,271,700 MMBtu during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
9. During start-up or shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
10. The startup duration shall not exceed 4.0 hours per day. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
11. The shutdown duration shall not exceed 1.0 hour per day. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
12. The total duration of startups and shutdowns shall not exceed 41 hours during any 12 consecutive month rolling period. [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. During startup and shutdown, NOx emissions shall not exceed 30.0 ppmvd @ 3% O2 or 0.036 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
14. During startup and shutdown, CO emissions shall not exceed 200 ppmvd @ 3% O2 or 0.148 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
15. Except during startup and shutdown, NOx emissions shall not exceed 5 ppmvd @ 3% O2 or 0.0062 lb/MMBtu, referenced as NO2 over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
16. Except during startup and shutdown, CO emissions shall not exceed 50 ppmvd @ 3% O2 or 0.037 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
17. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
18. PM10 emissions shall not exceed 0.003 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
19. VOC emissions shall not exceed 5 ppmvd @ 3% O2 or 0.002 lb/MMBtu, referenced as methane. [District Rule 2201] Federally Enforceable Through Title V Permit
20. NH3 emissions shall not exceed 10 ppmvd @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. The portable analyzer results will be compared to the PEMS data. The average emissions value measured with calibrated portable analyzer must not differ from the simultaneous PEMS average emissions value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
22. PEMS relative accuracy for NOx and CO shall be determined during startup and shutdown source testing in accordance with 40 CFR 60, Appendix F (Relative Accuracy Audit). [District Rule 2201] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records must also include a description of any corrective action taken to maintain the emissions within the acceptable range. These records shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
24. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
25. 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
26. Source testing to measure NOx, CO and NH3 emissions during steady state operation shall be conducted at least once every 12 months. After demonstrating compliance on 2 consecutive annual source tests, the unit shall be tested not less than once every 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 12 months. [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.

27. 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
28. 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
29. 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
30. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320] Federally Enforceable Through Title V Permit
31. Source testing for ammonia slip shall be conducted utilizing BAAQMD Method ST-1B. [District Rule 2201] Federally Enforceable Through Title V Permit
32. 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
33. 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 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
34. 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
35. 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
36. The owner or operator shall certify, maintain, operate and quality-assure a Predictive Emission Monitoring System (PEMS) which continuously predicts and records the exhaust gas NO_x, CO and O₂ concentrations. Predictive emissions monitor(s) shall be capable of predicting emissions during normal operating conditions, and during startups and shutdowns provided the PEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of PEMS cannot be demonstrated during startup conditions, PEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this permit. [District Rules 2201, and 4320, 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
37. The owner or operator shall monitor and record the stack concentration of NH₃ at least once during each month in which source testing is not performed. NH₃ monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if 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(s) unless it has been performed within the last month. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the PEMS. [40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
39. The PEMS shall be operated and data recorded during all periods of operation except for PEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)] Federally Enforceable Through Title V Permit
40. The PEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour or shall meet equivalent specifications established by mutual agreement of the District, the CARB and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
41. The NO_x, CO and O₂ PEMS shall meet the requirements in 40 CFR 60, Appendix B, Performance Specification 16 (PS 16) or shall meet equivalent specifications established by mutual agreement of the District, the CARB, and the EPA. [District Rules 1080, 2201, 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.

42. The PEMS sensor evaluation system shall check the integrity of each input at least once per day. [District Rule 1080] Federally Enforceable Through Title V Permit
43. After the initial startup RATA, the facility shall conduct a RATA at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the predictive emission monitor equipment in accordance with the procedures and guidance specified in as specified by 40 CFR Part 60, Appendix B Performance Specification 16. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
44. PEMS must be audited at least once each calendar quarter, by relative accuracy audits (RAA) except during quarters in which a RATA is performed, in accordance with EPA guidelines. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
45. Permittee shall perform Relative Accuracy Test Audits (RATA) and Relative Accuracy Audit (RAA). RATA must not exceed +/- 20 percent absolute mean difference or 10 percent of applicable standard. For diluent PEMS, an alternative criterion of ± 1 percent absolute difference between the PEMS and RM may be used if less stringent. The RAA shall consist of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. The average of the 3 portable analyzer (RM) determinations must not differ from the simultaneous PEMS average value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
46. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly RATA in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. If a quarterly audit is missed due to the unit not operating, the audit shall be conducted in the next operating quarter. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, the operator must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
47. If PEMS fails to pass a quarterly RAA or yearly RATA test, or if changes are made that could result in a significant change in the emissions rate (e.g. turbine aging, process modification, new process operating modes, or changes to emission controls) the PEMS must be recertified by the earlier of 30 operating days or 180 calendar days after the failed RATA or after the change that has caused a significant change in emission rate as specified in PS-16, Section 8.5. [District Rules 2201, 4702 and 40 CFR Subpart GG] Federally Enforceable Through Title V Permit
48. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
49. The PEMS data shall be reduced to hourly averages as specified in 40 CFR 60.13(h), or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
50. Upon written notice from the District, the owner or operator shall provide a summary of the data obtained from the PEMS. This summary shall be in the form and the manner prescribed by the District. [District Rule 1080] Federally Enforceable Through Title V Permit
51. The facility shall install and maintain equipment, facilities, and systems compatible with the District's PEMS data polling software system and shall make PEMS data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
52. Upon notice by the District that the facility's PEMS is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the PEMS data is sent to the District by a District-approved alternative method. [District Rule 1080] 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.

53. The permittee shall maintain the following records for PEMS equipment: (1) Date, time and duration of any malfunction; (2) Date of performance testing; (3) Date of evaluations, calibrations, checks, and adjustments; and (4) Date and time period for which PEMS was inoperative. [District Rule 1080] Federally Enforceable Through Title V Permit
54. The owner or operator shall submit the performance test data and the performance evaluation of the PEMS using performance specification PS16 for PEMS certification in 40 CFR Part 60. [40 CFR 60.49b(b)] Federally Enforceable Through Title V Permit
55. An O&M manual containing detailed system requirements shall be prepared and submitted for approval along with the monitoring plan required under 40 CFR 60.49b(c). [40 CFR 60.49b(c)] Federally Enforceable Through Title V Permit
56. For 40 CFR Part 60 Subpart Db purpose, NOx emissions shall not exceed 0.1 lb/MMBtu for low heat release units (70,000 Btu/hr-ft³ of furnace volume or less) and 0.2 lb/MMBtu for high heat release units (greater than 70,000 Btu/hr-ft³ of furnace volume) on a 30-day rolling average basis. NOx standard shall apply at all times including periods of startup, shutdown, or malfunction. The permittee shall maintain record of the furnace volume, which is defined as the volume bounded by the front furnace wall where the burner is located, the furnace side waterfall, and extending to the level just below or in front of the first row of convection pass tubes. [40 CFR 60.44b(a), 60.44b(h), 60.44b(i)] Federally Enforceable Through Title V Permit
57. Following the initial compliance test, the operator shall determine compliance with the NOx standard under 40 CFR 60.44 (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)) on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(3)] Federally Enforceable Through Title V Permit
58. The 1-hour average NOx emission rates measured by the continuous NOx monitor shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)). The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)] Federally Enforceable Through Title V Permit
59. When NOx data are not obtained because of PEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7 of Appendix A of Part 60, Method 7A of Appendix A of Part 60, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. [40 CFR 60.48b(f)] Federally Enforceable Through Title V Permit
60. The owner or operator shall maintain records of the amount of fuel combusted during each day in this unit. [District Rule 2201 and 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
61. The owner or operator shall maintain records of the annual capacity factor on a monthly basis. The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
62. The owner or operator shall either obtain fuel receipts (such as a valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the gaseous fuel meets definition of natural gas (as defined in 40 CFR 60.41b) and the applicable sulfur limit (i.e., 1.0 gr-S/100 scf), or demonstrate that the combusted gas is provided from a PUC or FERC regulated source, or monitor the sulfur content within 60 days of initial startup and weekly thereafter. If the sulfur content is less than or equal to 1.0 gr/100 dscf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks. [District Rule 4320, 40 CFR 60.45b(j), 60.49b(r)(2)] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

63. The owner or operator shall maintain records and submit a written report each calendar quarter to the District containing the following information for each steam generating unit operating day: (1) Calendar date; (2) The average hourly NOx and CO emission rates (expressed as NO2) (ppmvd @ 3% O2 and lb/MMBtu heat input) measured or predicted; (3) 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; (4) 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 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)), with the reasons for such excess emissions as well as a description of corrective actions taken; (5) Identification of the steam generating unit operating days when the average hourly NOx and CO emission rates are in excess of the NOx and CO limits (startup, shutdown and steady state) in this permit, with the reason for such excess emissions as well as a description of corrective actions taken; (6) 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; (7) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; (8) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; (9) Identification of the times when the pollutant concentration exceeded full span of the PEMS; (10) Description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16; (11) Results of daily PEMS drift tests and quarterly accuracy assessments as required under Appendix F, Procedure 1 of Part 60; and (11) A negative declaration when no excess emissions occurred. The report is due on the 30th day following the end of the calendar quarter. [District Rules 1080, 2201, 4305, 4306 and 4320; 40 CFR 60.49b(g), 40 CFR 60.49b(i), and 40 CFR 60.49b(w)] Federally Enforceable Through Title V Permit
64. The owner or operator of an affected facility may submit electronic quarterly reports in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the District. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this permit was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the District to obtain their agreement to submit reports in this alternative format. [District Rule 1080 and 40 CFR 60.49b(v)] Federally Enforceable Through Title V Permit
65. The owner or operator shall keep records of the date and time, measured NH3 concentration, O2 concentration in percent, and NH3 concentration corrected to 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
66. The owner or operator shall keep records of the date, duration of each startup (hours), and duration of each shutdown (hours). [District Rule 2201] Federally Enforceable Through Title V Permit
67. The owner or operator shall keep records of the total duration of startups and shutdowns (hours) on a rolling 12 consecutive month total basis, and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
68. The owner or operator shall keep record of the facility-wide NOx emissions (in pounds). The record shall be on a rolling 12 consecutive month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
69. The owner or operator shall keep record of the annual heat input to this unit (in MMBtu). The record shall be kept on a rolling 12 consecutive month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
70. The owner or operator shall maintain all records of required monitoring data and support information for a period of five years from the date of data entry and shall make such records available to the District upon request. [District Rules 1070, 2201, 4305, 4306, and 4320; and 40 CFR 60.49b(o)] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-26-2

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

WOOD BIN/WOOD PALLET MANUFACTURING OPERATION INCLUDING ONE RIP/CROSS CUT SAW, ONE NOTCHER, ONE GANG DRILL SYSTEM, AND ONE CABINET SAW ALL SERVED BY A 9,000 CFM DONALDSON TORIT MODEL 81FT8 DUST COLLECTOR 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. Visible emissions from the exhaust of the dust collector serving the woodworking operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Dust collector exhaust fan(s) shall be switched on prior to the start-up of any woodworking equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All ducting and control equipment shall be in good working order to prevent fugitive particulate emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
5. All filters shall be properly maintained and must be in place during the woodworking operation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Replacement filters numbering at least 10% of the filters in the dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The dust collector shall operate at all times with a minimum differential pressure of 1 inches of water column and a maximum differential pressure of 6 inches of water column. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
11. PM10 emissions at the dust collector discharge shall not exceed 0.0004 gr/dscf. [District Rule 2201] Federally Enforceable Through Title V Permit
12. PM10 emissions from the equipment under this permit shall not exceed 183 pounds per year. The permittee shall maintain records sufficient to demonstrate compliance with this limit. These records shall contain calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Differential operating pressure shall be monitored and recorded on each day woodworking equipment operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Records of the daily differential operating pressure readings shall be retained on-site. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-29-2

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

SAW STOP HEAVY DUTY 10" TABLE SAW MODEL ICS53230-52 SERVED BY ONEIDA AIR SYSTEMS 634 CFM DUST COLLECTOR

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. Visible emissions from the exhaust of the dust collector serving the woodworking operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Dust collector exhaust fan shall be switched on prior to the start-up of any woodworking equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All ducting and control equipment shall be in good working order to prevent fugitive particulate emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
5. All filters shall be properly maintained and must be in place during the woodworking operation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Replacement filters numbering at least 10% of the filters in the dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM10 emissions at the dust collector discharge shall not exceed 0.0004 gr/dscf. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-1399-0-1

EXPIRATION DATE: 09/30/2017

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: LIBERTY PACKING CO - THE MORNING STAR CO
Location: 12045 S INGOMAR GRADE RD, LOS BANOS, CA 93635
N-1399-0-1: Oct 5 2018 4:18PM -- AHMADS

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On August 31, 2013, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report 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.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-4-4

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

220 MMBTU/HR NEBRASKA MODEL N-25-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD DRMB BURNER AND FLUE GAS RECIRCULATION (BOILER NO. 3)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The combined natural gas usage of units N-1399-4 and N-1399-5 shall not exceed 1,056,019 MMBtu during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The CO emissions shall not exceed 25 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
8. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. 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
13. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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
15. 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
16. 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
17. 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
18. 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
19. The flue gas recirculation valve(s) setting shall be monitored on at least 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
20. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units 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
21. 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
22. 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
23. 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 District Rule 4320. [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 the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. A record of the cumulative annual fuel usage of units N-1399-4 and N-1399-5 shall be kept. The record shall be on a rolling 12 month period, shall be in the terms of Btu's and shall be updated at least weekly. [District Rule 1070] 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, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
30. The NOx emission limit (as NO2) shall not exceed 0.20 lb/MMBtu. [40 CFR 60.44b(a)(1)(ii)] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. 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
34. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-5-4

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

220 MMBTU/HR NEBRASKA MODEL N-25-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD DRMB BURNER AND FLUE GAS RECIRCULATION (BOILER NO. 4)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The combined natural gas usage of units N-1399-4 and N-1399-5 shall not exceed 1,056,019 MMBtu during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The CO emissions shall not exceed 25 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
8. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. 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
13. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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] Federally Enforceable Through Title V Permit
15. 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
16. 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
17. 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
18. 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
19. The flue gas recirculation valve(s) setting shall be monitored on at least 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
20. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units 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
21. 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
22. 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
23. 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 District Rule 4320. [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 the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. A record of the cumulative annual fuel usage of units N-1399-4 and N-1399-5 shall be kept. The record shall be on a rolling 12 month total basis, shall be in the terms of Btu's and shall be updated at least weekly. [District Rule 1070] 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, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
30. The NOx emission limit (as NO2) shall not exceed 0.20 lb/MMBtu. [40 CFR 60.44b(a)(1)(ii)] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. 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
34. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-11-2

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

94 BHP JOHN DEERE MODEL JU4H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
2. A record of the facility-wide NOx emissions (in pounds), on a rolling 12 month period, shall be kept. The records shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This engine shall not be used to reduce the demand for electrical power when the electrical power line service has not failed, to produce power for the electrical distribution system, or as part of a voluntary utility demand reduction program or interruptible power contract. [District Rule 2201 and 4702] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. NOx emissions from this engine shall not exceed 6.1 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. VOC emissions from this engine shall not exceed 0.29 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. CO emissions from this engine shall not exceed 0.2 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. PM10 emissions from this engine shall not exceed 0.04 g/hp-hr based on U.S. EPA certification using test procedure ISO 8178. [District Rule 2201] Federally Enforceable Through Title V Permit
9. 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]
10. 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
11. 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
12. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. 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
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, 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
15. 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] Federally Enforceable Through Title V Permit
16. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 40 CFR 63.6660, and 17 CCR 93115] Federally Enforceable Through Title V Permit
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-13-4

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

180 MMBTU/HR NEBRASKA MODEL N2S-7-95 NATURAL GAS-FIRED BOILER WITH AN ULTRA LOW NOX TODD RAPID MIX BURNER (RMB), INDUCED FLUE GAS RECIRCULATION AND A ROSEMOUNT OXYGEN CONTROLLER (BOILER NO. 2)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 30 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
11. 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
12. 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
13. 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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14. 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
15. 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
16. 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
17. 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
18. The flue gas recirculation rate shall be determined at least on a weekly basis by measuring the stack O₂% by volume (O_s), and windbox O₂% by volume (O_w) using the following equation: $FGR \text{ rate} = \{O_w - 20.9\} / \{O_s - 20.9\} \times 100\%$. 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
19. The minimum flue gas recirculation rate 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 no lower than the minimum flue gas recirculation rate with which compliance with applicable NO_x and CO emission limits has been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. If the flue gas recirculation rate is less than the normal range/level, the permittee shall return the flue gas recirculation rate to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation rate 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 rate. 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
21. The permittee shall maintain records of the date and time of oxygen concentration measurements, the measured oxygen concentrations, the calculated flue gas recirculation rate, and the firing rate at the time of the oxygen concentration measurements. The records shall also include a description of any corrective action taken to maintain the flue gas recirculation rate within the acceptable range. [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 District Rule 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. During the 36-month source-testing interval, the owner/operator shall have the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 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.

24. 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
25. 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
26. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month period and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
27. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
28. The NOx emission limit (as NO₂) shall not exceed 0.20 lb/MMBtu. [40 CFR 60.44b(a)(1)(ii)] Federally Enforceable Through Title V Permit
29. 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
30. 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
31. 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
32. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-16-3

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

TOMATO ROASTING AND SMOKING OPERATION CONSISTING OF ONE 10 MMBTU/HR FEMCO MODEL 26010 60" WIDE TOMATO ROASTER, ONE SMOKE CHAMBER WITH A 13.0 KW ELECTRIC SMOKE GENERATOR, AND ASSOCIATED CONVEYING EQUIPMENT

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. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Visible emissions from the smoke chamber shall not exceed either Ringelmann 1/4 or 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
4. If the smoker exhibits visible emissions of Ringelmann 1/4 or 5% opacity or greater for a period or periods aggregating more than three minutes in any one hour, compliance testing for particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The tomato roaster shall be operated on natural gas only. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The burner shall be operated within manufacturer's specifications to minimize NOx emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The NOx emissions from the tomato roaster shall not exceed 0.0364 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The CO emissions from the tomato roaster shall not exceed 0.369 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions from the tomato roaster shall not exceed 0.0076 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The VOC emissions from the tomato roaster shall not exceed 0.0055 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The SOx emissions from the tomato roaster shall not exceed 0.00285 pounds per MMBtu of heat input. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Operating schedule shall not exceed 90 days per year. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The PM10 emission rate from the smoke chamber shall not exceed 0.00625 pounds per pound of wood chips & sawdust burned in the smoke generator. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The VOC emission rate from the smoke chamber shall not exceed 0.00835 pounds per pound of wood chips & sawdust burned in the smoke generator. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The quantity of wood chips and sawdust burned in the smoke generator shall not exceed 240 pounds in any one day. [District Rule 2201] 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 results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Permittee shall maintain a daily record which consists of the following information: (a) The date the tomato roaster and/or the smoke chamber is operated; (b) The daily quantity of wood chips & sawdust burned in the smoke generator (in pounds per day); (c) The cumulative quantity of wood chips & sawdust burned in the smoke generator during each calendar year (in pounds). [District Rules 2201 and 1070] Federally Enforceable Through Title V Permit
19. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-17-6

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

263 MMBTU/HR NEBRASKA MODEL N2S-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD DRMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (BOILER NO. 1) WITH PREDICTIVE EMISSIONS MONITORING SYSTEM

PERMIT UNIT REQUIREMENTS

1. 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] Federally Enforceable Through Title V Permit
2. The facility-wide NOx emissions shall not exceed 33,705 pounds during any 12 consecutive month rolling period. [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. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
5. The unit shall only be fired on PUC-quality natural gas with a sulfur content of no greater than 1.0 grains (gr) of sulfur per 100 standard cubic feet (scf) of natural gas. [District Rules 2201 and 4320, 40 CFR 60.42b9k)(1)(2)] Federally Enforceable Through Title V Permit
6. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201, 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
7. Heat input to this unit shall not exceed either of the following: 260 MMBtu/hr and 1,059,019 MMBtu during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
8. During start-up or shutdown, the emissions control system (i.e. FGR system) shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
9. The startup duration shall not exceed 2.0 hours per day. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
10. The shutdown duration shall not exceed 1.0 hour per day. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
11. The total duration of startups and shutdowns shall not exceed 41 hours during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
12. SOx emissions shall not exceed 0.00285 lb/MMBtu. [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. PM10 emissions shall not exceed 0.0074 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu, referenced as methane. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The owner or operator shall certify, maintain, operate and quality-assure a Predictive Emission Monitoring System (PEMS) which continuously predicts and records the exhaust gas NOx, CO and O2 concentrations. Predictive emissions monitor(s) shall be capable of predicting emissions during normal operating conditions, and during startups and shutdowns provided the PEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of PEMS cannot be demonstrated during startup conditions, PEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this permit. [District Rules 2201 and 4320, and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
16. During startup and shutdown, NOx emissions shall not exceed 30.0 ppmvd @ 3% O2 or 0.036 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
17. During startup and shutdown, CO emissions shall not exceed 200 ppmvd @ 3% O2 or 0.148 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
18. Except during startup and shutdown, NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu, referenced as NO2 over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
19. Except during startup and shutdown, CO emissions shall not exceed 50 ppmvd @ 3% O2 or 0.037 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
20. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
21. 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
22. Permittee shall perform a relative accuracy audit (RAA) consisting of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. The average of the 3 portable analyzer (RM) determinations must not differ from the simultaneous PEMS average value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [District Rules 2201, 4702 and 40 CFR Subpart GG] Federally Enforceable Through Title V Permit
23. PEMS relative accuracy for NOx and CO shall be determined during startup and shutdown source testing in accordance with 40 CFR 60, Appendix F (Relative Accuracy Audit). [District Rule 2201] Federally Enforceable Through Title V Permit
24. Source testing to measure NOx and CO emissions during steady state operation shall be conducted at least once every 12 months. After demonstrating compliance on 2 consecutive annual source tests, the unit shall be tested not less than once every 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 12 months. [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. 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] Federally Enforceable Through Title V Permit
26. 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
27. 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
28. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320] Federally Enforceable Through Title V Permit
29. 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
30. 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 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
31. 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
32. 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
33. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. The portable analyzer results will be compared to the PEMS data. The average emissions value measured with calibrated portable analyzer must not differ from the simultaneous PEMS average emissions value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
34. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records must also include a description of any corrective action taken to maintain the emissions within the acceptable range. These records shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
35. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the PEMS. [40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
36. The PEMS shall be operated and data recorded during all periods of operation except for PEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)] Federally Enforceable Through Title V Permit
37. The PEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour or shall meet equivalent specifications established by mutual agreement of the District, the CARB and the EPA. [District Rules 1080, 2201, 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.

38. Permittee shall perform Relative Accuracy Test Audits (RATA) and Relative Accuracy Audit (RAA). RATA must not exceed +/- 20 percent absolute mean difference or 10 percent of applicable standard. For diluent PEMS, an alternative criterion of ± 1 percent absolute difference between the PEMS and RM may be used if less stringent. The RAA shall consist of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. The average of the 3 portable analyzer (RM) determinations must not differ from the simultaneous PEMS average value by more than 10 percent of the analyzer or RM value for concentrations greater than 100 ppmv or 20% for concentrations between 100 and 20 ppmv or the test is failed. For measurements at 20 ppmv or less, this difference shall not exceed 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
39. The NO_x, CO and O₂ PEMS shall meet the requirements in 40 CFR 60, Appendix B, Performance Specification 16 (PS 16) or shall meet equivalent specifications established by mutual agreement of the District, the CARB, and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
40. The PEMS sensor evaluation system shall check the integrity of each input at least once per day. [District Rule 1080] Federally Enforceable Through Title V Permit
41. If PEMS fails to pass a quarterly RAA or yearly RATA test, or if changes are made that could result in a significant change in the emissions rate (e.g. turbine aging, process modification, new process operating modes, or changes to emission controls) the PEMS must be recertified by the earlier of 30 operating days or 180 calendar days after the failed RATA or after the change that has caused a significant change in emission rate as specified in PS-16, Section 8.5. [District Rules 2201, 4702 and 40 CFR Subpart GG] Federally Enforceable Through Title V Permit
42. The facility shall conduct a RATA at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the predictive emission monitor equipment in accordance with the procedures and guidance specified in as specified by 40 CFR Part 60, Appendix B Performance Specification 16. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
43. PEMS must be audited at least once each calendar quarter, by relative accuracy audits (RAA) except during quarters in which a RATA is performed, in accordance with EPA guidelines. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
44. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly RATA in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. If a quarterly audit is missed due to the unit not operating, the audit shall be conducted in the next operating quarter. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, the operator must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
45. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
46. The PEMS data shall be reduced to hourly averages as specified in 40 CFR 60.13(h), or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
47. Upon written notice from the District, the owner or operator shall provide a summary of the data obtained from the PEMS. This summary shall be in the form and the manner prescribed by the District. [District Rule 1080] 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.

48. The facility shall install and maintain equipment, facilities, and systems compatible with the District's PEMS data polling software system and shall make PEMS data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
49. Upon notice by the District that the facility's PEMS is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the PEMS data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
50. The permittee shall maintain the following records for PEMS equipment: (1) Date, time and duration of any malfunction; (2) Date of performance testing; (3) Date of evaluations, calibrations, checks, and adjustments; and (4) Date and time period for which PEMS was inoperative. [District Rule 1080] Federally Enforceable Through Title V Permit
51. The owner or operator shall submit the performance test data and the performance evaluation of the PEMS using performance specification PS16 for PEMS certification in 40 CFR Part 60. [40 CFR 60] Federally Enforceable Through Title V Permit
52. An O&M manual containing detailed system requirements shall be prepared and submitted for approval along with the monitoring plan required under 40 CFR 60.49b(c). [40 CFR 60.49b(c)] Federally Enforceable Through Title V Permit
53. For 40 CFR Part 60 Subpart Db purpose, NOx emissions shall not exceed 0.1 lb/MMBtu for low heat release units (70,000 Btu/hr-ft³ of furnace volume or less) and 0.2 lb/MMBtu for high heat release units (greater than 70,000 Btu/hr-ft³ of furnace volume) on a 30-day rolling average basis. NOx standard shall apply at all times including periods of startup, shutdown, or malfunction. The permittee shall maintain record of the furnace volume, which is defined as the volume bounded by the front furnace wall where the burner is located, the furnace side waterfall, and extending to the level just below or in front of the first row of convection pass tubes. [40 CFR 60.44b(a), 60.44b(h), 60.44b(i)] Federally Enforceable Through Title V Permit
54. Following the initial compliance test, the operator shall determine compliance with the NOx standard under 40 CFR 60.44 (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)) on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(3)] Federally Enforceable Through Title V Permit
55. The 1-hour average NOx emission rates measured by the continuous NOx monitor shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)). The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)] Federally Enforceable Through Title V Permit
56. When NOx data are not obtained because of PEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7 of Appendix A of Part 60, Method 7A of Appendix A of Part 60, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. [40 CFR 60.48b(f)] Federally Enforceable Through Title V Permit
57. The owner or operator shall maintain records of the amount of fuel combusted during each day in this unit. [District Rule 2201 and 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
58. The owner or operator shall maintain records of the annual capacity factor on a monthly basis. The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)] 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.

59. The owner or operator shall either obtain fuel receipts (such as a valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the gaseous fuel meets definition of natural gas (as defined in 40 CFR 60.41b) and the applicable sulfur limit (i.e., 1.0 gr-S/100 scf), or demonstrate that the combusted gas is provided from a PUC or FERC regulated source, or monitor the sulfur content within 60 days of initial startup and weekly thereafter. If the sulfur content is less than or equal to 1.0 gr/100 dscf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks. [District Rule 4320, 40 CFR 60.45b(j), 60.49b(r)(2)] Federally Enforceable Through Title V Permit
60. The owner or operator shall maintain records and submit a written report each calendar quarter to the District containing the following information for each steam generating unit operating day: (1) Calendar date; (2) The average hourly NOx and CO emission rates (expressed as NO2) (ppmvd @ 3% O2 and lb/MMBtu heat input) measured or predicted; (3) 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; (4) 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 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)), with the reasons for such excess emissions as well as a description of corrective actions taken; (5) Identification of the steam generating unit operating days when the average hourly NOx and CO emission rates are in excess of the NOx and CO limits (startup, shutdown and steady state) in this permit, with the reason for such excess emissions as well as a description of corrective actions taken; (6) 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; (7) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; (8) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; (9) Identification of the times when the pollutant concentration exceeded full span of the PEMS; (10) Description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16; (11) Results of daily PEMS drift tests and quarterly accuracy assessments as required under Appendix F, Procedure 1 of Part 60; and (11) A negative declaration when no excess emissions occurred. The report is due on the 30th day following the end of the calendar quarter. [District Rules 1080, 2201, 4305, 4306 and 4320, 40 CFR 60.49b(g), 40 CFR 60.49b(i), and 40 CFR 60.49b(w)] Federally Enforceable Through Title V Permit
61. The owner or operator of an affected facility may submit electronic quarterly reports in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the District. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this permit was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the District to obtain their agreement to submit reports in this alternative format. [District Rule 1080 and 40 CFR 60.49b(v)] Federally Enforceable Through Title V Permit
62. The owner or operator shall keep records of the date, duration of each startup (hours), and duration of each shutdown (hours). [District Rule 2201] Federally Enforceable Through Title V Permit
63. The owner or operator shall keep records of the total duration of startups and shutdowns (hours) on a rolling 12 consecutive month total basis, and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
64. The owner or operator shall keep record of the facility-wide NOx emissions (in pounds). The record shall be on a rolling 12 consecutive month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
65. The owner or operator shall keep record of the annual heat input to this unit (in MMBtu). The record shall be kept on a rolling 12 consecutive month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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66. The owner or operator shall maintain all records of required monitoring data and support information for a period of five years from the date of data entry and shall make such records available to the District upon request. [District Rules 1070, 2201, 4305, 4306, and 4320, 40 CFR 60.49b(o)] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-20-4

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

36 MMBTU/HR NEBRASKA MODEL NS-C-S-42 NATURAL GAS-FIRED BOILER WITH A URS MODEL MRMB-4-36 ULTRA LOW NOX BURNER, INDUCED FLUE GAS RECIRCULATION AND A ROSEMOUNT OXYGEN CONTROLLER (BOILER NO. 5)

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. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. The facility-wide NOx emissions shall not exceed 33,705 pounds during any one rolling 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
6. The CO emissions shall not exceed 50 ppmvd @ 3% O2. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
7. The VOC emissions shall not exceed 10 ppmvd, as methane, @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing to measure the 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
11. 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
12. 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
13. 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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
15. 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
16. 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
17. 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
18. The flue gas recirculation valve(s) setting shall be monitored on at least 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
19. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units 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
20. 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
21. 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
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 District Rule 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. During the 36-month source-testing interval, the owner/operator shall have the unit tuned at least twice during each calendar year it operates. The tune-ups shall be four to eight months apart and shall be conducted by a technician that is qualified, to the satisfaction of the APCO. All tune-ups shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
24. 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
25. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. A record of the facility-wide NOx emissions (in pounds) shall be kept. The record shall be on a rolling 12 month period and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
27. A monthly record of the amount of fuel burned by this unit, in Btu's, shall be kept. [40 CFR Part 60.48c(g)(2)] 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, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-21-2

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

389 BHP IVECO MODEL CURSOR78 TE2X TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

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 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
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. Emissions from this IC engine shall not exceed any of the following limits: 2.37 g-NOx/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 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 0.097 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 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. 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
9. 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
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-24-2

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

458.5 MMBTU/HR CLEAVER BROOKS MODEL NB-ED-110 BOILER EQUIPPED WITH A COEN MODEL VARIFLAME LOW NOX BURNER INDUCED FLUE GAS RECIRCULATION SERVED BY A CADASTACK (OR OTHER MANUFACTURER) SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH PREDICTIVE EMISSIONS MONITORING SYSTEM

PERMIT UNIT REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100] Federally Enforceable Through Title V Permit
3. The facility-wide NOx emissions shall not exceed 33,705 pounds during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
6. The unit shall only be fired on PUC-quality natural gas with a sulfur content of no greater than 1.0 grains (gr) of sulfur per 100 standard cubic feet (scf) of natural gas. [District Rules 2201 and 4320, 40 CFR 60.42b9k)(1)(2)] Federally Enforceable Through Title V Permit
7. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be installed, utilized and maintained. [District Rule 2201, 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
8. Heat input to this unit shall not exceed 1,271,700 MMBtu during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
9. During start-up or shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
10. The startup duration shall not exceed 4.0 hours per day. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
11. The shutdown duration shall not exceed 1.0 hour per day. [District Rules 2201, 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.

12. The total duration of startups and shutdowns shall not exceed 41 hours during any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
13. During startup and shutdown, NOx emissions shall not exceed 30.0 ppmvd @ 3% O2 or 0.036 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
14. During startup and shutdown, CO emissions shall not exceed 200 ppmvd @ 3% O2 or 0.148 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
15. Except during startup and shutdown, NOx emissions shall not exceed 5 ppmvd @ 3% O2 or 0.0062 lb/MMBtu, referenced as NO2 over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
16. Except during startup and shutdown, CO emissions shall not exceed 50 ppmvd @ 3% O2 or 0.037 lb/MMBtu over 1-hour averaging period. Each one-hour period shall commence on the hour. [District Rules 2201, 4305, 4306 and 4320, 40 CFR Part 60.13(h)(1)] Federally Enforceable Through Title V Permit
17. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
18. PM10 emissions shall not exceed 0.003 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
19. VOC emissions shall not exceed 5 ppmvd @ 3% O2 or 0.002 lb/MMBtu, referenced as methane. [District Rule 2201] Federally Enforceable Through Title V Permit
20. NH3 emissions shall not exceed 10 ppmvd @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. The portable analyzer results will be compared to the PEMS data. The average emissions value measured with calibrated portable analyzer must not differ from the simultaneous PEMS average emissions value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
22. PEMS relative accuracy for NOx and CO shall be determined during startup and shutdown source testing in accordance with 40 CFR 60, Appendix F (Relative Accuracy Audit). [District Rule 2201] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records must also include a description of any corrective action taken to maintain the emissions within the acceptable range. These records shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [40 CFR 60 PS16] Federally Enforceable Through Title V Permit
24. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
25. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. Source testing to measure NO_x, CO and NH₃ emissions during steady state operation shall be conducted at least once every 12 months. After demonstrating compliance on 2 consecutive annual source tests, the unit shall be tested not less than once every 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 12 months. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
27. 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
28. 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
29. 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
30. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320] Federally Enforceable Through Title V Permit
31. Source testing for ammonia slip shall be conducted utilizing BAAQMD Method ST-1B. [District Rule 2201] Federally Enforceable Through Title V Permit
32. 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
33. 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 4320. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
34. 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
35. 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
36. The owner or operator shall certify, maintain, operate and quality-assure a Predictive Emission Monitoring System (PEMS) which continuously predicts and records the exhaust gas NO_x, CO and O₂ concentrations. Predictive emissions monitor(s) shall be capable of predicting emissions during normal operating conditions, and during startups and shutdowns provided the PEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of PEMS cannot be demonstrated during startup conditions, PEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this permit. [District Rules 2201, and 4320, 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
37. The owner or operator shall monitor and record the stack concentration of NH₃ at least once during each month in which source testing is not performed. NH₃ monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if 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(s) unless it has been performed within the last month. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the PEMS. [40 CFR 60.48b(e)] Federally Enforceable Through Title V Permit
39. The PEMS shall be operated and data recorded during all periods of operation except for PEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

40. The PEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour or shall meet equivalent specifications established by mutual agreement of the District, the CARB and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
41. The NO_x, CO and O₂ PEMS shall meet the requirements in 40 CFR 60, Appendix B, Performance Specification 16 (PS 16) or shall meet equivalent specifications established by mutual agreement of the District, the CARB, and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
42. The PEMS sensor evaluation system shall check the integrity of each input at least once per day. [District Rule 1080] Federally Enforceable Through Title V Permit
43. After the initial startup RATA, the facility shall conduct a RATA at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the predictive emission monitor equipment in accordance with the procedures and guidance specified in as specified by 40 CFR Part 60, Appendix B Performance Specification 16. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
44. PEMS must be audited at least once each calendar quarter, by relative accuracy audits (RAA) except during quarters in which a RATA is performed, in accordance with EPA guidelines. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
45. Permittee shall perform Relative Accuracy Test Audits (RATA) and Relative Accuracy Audit (RAA). RATA must not exceed +/- 20 percent absolute mean difference or 10 percent of applicable standard. For diluent PEMS, an alternative criterion of ±1 percent absolute difference between the PEMS and RM may be used if less stringent. The RAA shall consist of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. An audit (RAA) is not required for a calendar quarter if the unit does not operate during that calendar quarter. The average of the 3 portable analyzer (RM) determinations must not differ from the simultaneous PEMS average value by more than 2 ppmv for pollutant PEMS and 1% absolute for diluent PEMS. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
46. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly RATA in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. If a quarterly audit is missed due to the unit not operating, the audit shall be conducted in the next operating quarter. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, the operator must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
47. If PEMS fails to pass a quarterly RAA or yearly RATA test, or if changes are made that could result in a significant change in the emissions rate (e.g. turbine aging, process modification, new process operating modes, or changes to emission controls) the PEMS must be recertified by the earlier of 30 operating days or 180 calendar days after the failed RATA or after the change that has caused a significant change in emission rate as specified in PS-16, Section 8.5. [District Rules 2201, 4702 and 40 CFR Subpart GG] Federally Enforceable Through Title V Permit
48. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
49. The PEMS data shall be reduced to hourly averages as specified in 40 CFR 60.13(h), or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [District Rules 1080, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
50. Upon written notice from the District, the owner or operator shall provide a summary of the data obtained from the PEMS. This summary shall be in the form and the manner prescribed by the District. [District Rule 1080] 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.

51. The facility shall install and maintain equipment, facilities, and systems compatible with the District's PEMS data polling software system and shall make PEMS data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
52. Upon notice by the District that the facility's PEMS is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the PEMS data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
53. The permittee shall maintain the following records for PEMS equipment: (1) Date, time and duration of any malfunction; (2) Date of performance testing; (3) Date of evaluations, calibrations, checks, and adjustments; and (4) Date and time period for which PEMS was inoperative. [District Rule 1080] Federally Enforceable Through Title V Permit
54. The owner or operator shall submit the performance test data and the performance evaluation of the PEMS using performance specification PS16 for PEMS certification in 40 CFR Part 60. [40 CFR 60.49b(b)] Federally Enforceable Through Title V Permit
55. An O&M manual containing detailed system requirements shall be prepared and submitted for approval along with the monitoring plan required under 40 CFR 60.49b(c). [40 CFR 60.49b(c)] Federally Enforceable Through Title V Permit
56. For 40 CFR Part 60 Subpart Db purpose, NOx emissions shall not exceed 0.1 lb/MMBtu for low heat release units (70,000 Btu/hr-ft³ of furnace volume or less) and 0.2 lb/MMBtu for high heat release units (greater than 70,000 Btu/hr-ft³ of furnace volume) on a 30-day rolling average basis. NOx standard shall apply at all times including periods of startup, shutdown, or malfunction. The permittee shall maintain record of the furnace volume, which is defined as the volume bounded by the front furnace wall where the burner is located, the furnace side waterfall, and extending to the level just below or in front of the first row of convection pass tubes. [40 CFR 60.44b(a), 60.44b(h), 60.44b(i)] Federally Enforceable Through Title V Permit
57. Following the initial compliance test, the operator shall determine compliance with the NOx standard under 40 CFR 60.44 (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)) on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(3)] Federally Enforceable Through Title V Permit
58. The 1-hour average NOx emission rates measured by the continuous NOx monitor shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)). The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)] Federally Enforceable Through Title V Permit
59. When NOx data are not obtained because of PEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7 of Appendix A of Part 60, Method 7A of Appendix A of Part 60, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. [40 CFR 60.48b(f)] Federally Enforceable Through Title V Permit
60. The owner or operator shall maintain records of the amount of fuel combusted during each day in this unit. [District Rule 2201 and 40 CFR 60.49b(d)(1)] Federally Enforceable Through Title V Permit
61. The owner or operator shall maintain records of the annual capacity factor on a monthly basis. The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)] 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.

62. The owner or operator shall either obtain fuel receipts (such as a valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the gaseous fuel meets definition of natural gas (as defined in 40 CFR 60.41b) and the applicable sulfur limit (i.e., 1.0 gr-S/100 scf), or demonstrate that the combusted gas is provided from a PUC or FERC regulated source, or monitor the sulfur content within 60 days of initial startup and weekly thereafter. If the sulfur content is less than or equal to 1.0 gr/100 dscf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks. [District Rule 4320, 40 CFR 60.45b(j), 60.49b(r)(2)] Federally Enforceable Through Title V Permit
63. The owner or operator shall maintain records and submit a written report each calendar quarter to the District containing the following information for each steam generating unit operating day: (1) Calendar date; (2) The average hourly NOx and CO emission rates (expressed as NO2) (ppmvd @ 3% O2 and lb/MMBtu heat input) measured or predicted; (3) 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; (4) 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 40 CFR 60.44b (0.1 lb/MMBtu for low heat release units (i.e., 70,000 Btu/hr-ft³ of furnace volume, or less), or 0.2 lb/MMBtu for high heat release units (i.e., greater than 70,000 Btu/hr-ft³ of furnace volume)), with the reasons for such excess emissions as well as a description of corrective actions taken; (5) Identification of the steam generating unit operating days when the average hourly NOx and CO emission rates are in excess of the NOx and CO limits (startup, shutdown and steady state) in this permit, with the reason for such excess emissions as well as a description of corrective actions taken; (6) 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; (7) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; (8) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted; (9) Identification of the times when the pollutant concentration exceeded full span of the PEMS; (10) Description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16; (11) Results of daily PEMS drift tests and quarterly accuracy assessments as required under Appendix F, Procedure 1 of Part 60; and (11) A negative declaration when no excess emissions occurred. The report is due on the 30th day following the end of the calendar quarter. [District Rules 1080, 2201, 4305, 4306 and 4320, 40 CFR 60.49b(g), 40 CFR 60.49b(i), and 40 CFR 60.49b(w)] Federally Enforceable Through Title V Permit
64. The owner or operator of an affected facility may submit electronic quarterly reports in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the District. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this permit was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the District to obtain their agreement to submit reports in this alternative format. [District Rule 1080 and 40 CFR 60.49b(v)] Federally Enforceable Through Title V Permit
65. The owner or operator shall keep records of the date and time, measured NH3 concentration, O2 concentration in percent, and NH3 concentration corrected to 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
66. The owner or operator shall keep records of the date, duration of each startup (hours), and duration of each shutdown (hours). [District Rule 2201] Federally Enforceable Through Title V Permit
67. The owner or operator shall keep records of the total duration of startups and shutdowns (hours) on a rolling 12 consecutive month total basis, and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
68. The owner or operator shall keep record of the facility-wide NOx emissions (in pounds). The record shall be on a rolling 12 consecutive month total basis and shall be updated at least weekly. [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.

69. The owner or operator shall keep record of the annual heat input to this unit (in MMBtu). The record shall be kept on a rolling 12 consecutive month total basis and shall be updated at least weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
70. The owner or operator shall maintain all records of required monitoring data and support information for a period of five years from the date of data entry and shall make such records available to the District upon request. [District Rules 1070, 2201, 4305, 4306, and 4320, 40 CFR 60.49b(o)] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-26-1

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

WOOD BIN/WOOD PALLET MANUFACTURING OPERATION INCLUDING ONE RIP/CROSS CUT SAW, ONE NOTCHER, ONE GANG DRILL SYSTEM, AND ONE CABINET SAW ALL SERVED BY A 9,000 CFM DONALDSON TORIT MODEL 81FT8 DUST COLLECTOR 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. Visible emissions from the exhaust of the dust collector serving the woodworking operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Dust collector exhaust fan(s) shall be switched on prior to the start-up of any woodworking equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All ducting and control equipment shall be in good working order to prevent fugitive particulate emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
5. All filters shall be properly maintained and must be in place during the woodworking operation. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Replacement filters numbering at least 10% of the filters in the dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The dust collector shall operate at all times with a minimum differential pressure of 1 inches of water column and a maximum differential pressure of 6 inches of water column. [District Rule 2201]
10. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
11. PM10 emissions at the dust collector discharge shall not exceed 0.0004 gr/dscf. [District Rule 2201] Federally Enforceable Through Title V Permit
12. PM10 emissions from the equipment under this permit shall not exceed 183 pounds per year. The permittee shall maintain records sufficient to demonstrate compliance with this limit. These records shall contain calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Differential operating pressure shall be monitored and recorded on each day woodworking equipment operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Records of the daily differential operating pressure readings shall be retained on-site. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1399-29-1

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

SAW STOP HEAVY DUTY 10" TABLE SAW MODEL ICS53230-52 SERVED BY ONEIDA AIR SYSTEMS 634 CFM DUST COLLECTOR:

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. Visible emissions from the exhaust of the dust collector serving the woodworking operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Dust collector exhaust fan(s) shall be switched on prior to the start-up of any woodworking equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All ducting and control equipment shall be in good working order to prevent fugitive particulate emissions. [District Rule 2201]
5. All filters shall be properly maintained and must be in place during the woodworking operation. [District Rule 2201]
6. Dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201]
7. Replacement filters numbering at least 10% of the filters in the dust collector shall be maintained on the premises. [District Rule 2201]
8. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201]
9. PM10 emissions at the dust collector discharge shall not exceed 0.0004 gr/dscf. [District Rule 2201]
10. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District Rule 2201]
11. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

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

ATTACHMENT C

Detailed Summary List of Facility Permits

LIBERTY PACKING CO - THE MORNING STAR CO 12045 S INGOMAR GRADE RD LOS BANOS, CA 93635	FAC.# N 1399	TYPE: TitleV TOXIC ID: 91	EXPIRE ON: AREA: INSP. DATE:
STATUS: TELEPHONE:	A		09/30/2017 2/ 08/19

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1399-4-4	220 MMBtu/hr	3020-02 H	1	1,183.00	1,183.00	A	220 MMBTU/HR NEBRASKA MODEL N-25-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD DRMB BURNER AND FLUE GAS RECIRCULATION (BOILER NO. 3)
N-1399-5-4	220 MMBtu/hr	3020-02 H	1	1,183.00	1,183.00	A	220 MMBTU/HR NEBRASKA MODEL N-25-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD DRMB BURNER AND FLUE GAS RECIRCULATION (BOILER NO. 4)
N-1399-11-2	94 BHP IC ENGINE	3020-10 A	1	93.00	93.00	A	94 BHP JOHN DEERE MODEL JU4H-JF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
N-1399-13-4	180 MMBtu/hr	3020-02 H	1	1,183.00	1,183.00	A	180 MMBTU/HR NEBRASKA MODEL N2S-7-95 NATURAL GAS-FIRED BOILER WITH AN ULTRA LOW NOX TODD RAPID MIX BURNER (RMB), INDUCED FLUE GAS RECIRCULATION AND A ROSEMOUNT OXYGEN CONTROLLER (BOILER NO. 2)
N-1399-16-3	10 MMBtu/hr	3020-02 G	1	936.00	936.00	A	TOMATO ROASTING AND SMOKING OPERATION CONSISTING OF ONE 10 MMBTU/HR FEMCO MODEL 26010 60" WIDE TOMATO ROASTER, ONE SMOKE CHAMBER WITH A 13.0 KW ELECTRIC SMOKE GENERATOR, AND ASSOCIATED CONVEYING EQUIPMENT
N-1399-17-6	263 MMBtu/hr	3020-02 H	1	1,183.00	1,183.00	A	263 MMBTU/HR NEBRASKA MODEL N2S-8/S-100-ECON NATURAL GAS-FIRED BOILER WITH A TODD DRMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (BOILER NO. 1) WITH PREDICTIVE EMISSIONS MONITORING SYSTEM
N-1399-20-4	36 MMBtu/hr	3020-02 H	1	1,183.00	1,183.00	A	36 MMBTU/HR NEBRASKA MODEL NS-C-S-42 NATURAL GAS-FIRED BOILER WITH A URS MODEL MRMB-4-36 ULTRA LOW NOX BURNER, INDUCED FLUE GAS RECIRCULATION AND A ROSEMOUNT OXYGEN CONTROLLER (BOILER NO. 5)
N-1399-21-2	389 bhp	3020-10 C	1	277.00	277.00	A	389 BHP IVECO MODEL CURSOR78 TE2X TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-1399-24-2	458.5 MMBtu/hr	3020-02 H	1	1,183.00	1,183.00	A	458.5 MMBTU/HR CLEAVER BROOKS MODEL NB-ED-110 BOILER EQUIPPED WITH A COEN MODEL VARIFLAME LOW NOX BURNER INDUCED FLUE GAS RECIRCULATION SERVED BY A CADASTACK (OR OTHER MANUFACTURER) SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH PREDICTIVE EMISSIONS MONITORING SYSTEM
N-1399-26-1	120.5 hp, total electric motors	3020-01 D	1	362.00	362.00	A	WOOD BIN/WOOD PALLET MANUFACTURING OPERATION INCLUDING ONE RIP/CROSS CUT SAW, ONE NOTCHER, ONE GANG DRILL SYSTEM, AND ONE CABINET SAW ALL SERVED BY A 9,000 CFM DONALDSON TORIT MODEL 81FT8 DUST COLLECTOR SYSTEM
N-1399-29-1	10.5 HP	3020-01 A	1	102.00	102.00	A	SAW STOP HEAVY DUTY 10" TABLE SAW MODEL ICS53230-52 SERVED BY ONEIDA AIR SYSTEMS 634 CFM DUST COLLECTOR.