

December 19, 2022

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

**Re: Notice of Preliminary Decision – Title V Permit Renewal**  
**Facility Number: N-1326**  
**Project Number: N-1223578**

Dear Mr. Rebelo:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Bear Creek Winery at 13448 S Volta Rd in Los Banos, California.

The notice of preliminary decision for this project has been posted on the District's website ([www.valleyair.org](http://www.valleyair.org)). After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

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

Sincerely,



Brian Clements  
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email  
cc: Laura Yannayon, EPA (w/enclosure) via EPS

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**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation  
Morning Star Packing Company  
N-1326**

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# TITLE V PERMIT RENEWAL EVALUATION

## Agricultural Products Processing

**Engineer:** Matthew Robinson  
**Date:** December 19, 2022

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

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

**Responsible Official:** Kevin Rebelo  
**Title:** Steam Generating Colleague

**Project # :** N-1223578  
**Deemed Complete:** August 16, 2022

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### I. PROPOSAL

Morning Star Packing Company was issued their last renewed Title V permit on August 21, 2018. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the facility's last renewed 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

Morning Star Packing Company is located at 13448 S Volta Rd in Los Banos, 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.

Permit Unit	Condition #s
N-1326-0-3	1 through 22, and 26 through 40

## VI. FEDERALLY ENFORCEABLE REQUIREMENTS

### A. Rules Updated or Evaluated

- District Rule 2201, New and Modified Stationary Source Review Rule (amended February 18, 2016 ⇒ amended August 15, 2019)
- District Rule 2520, Federally Mandated Operating Limits (amended June 21, 2001 ⇒ amended August 15, 2019)
- District Rule 4306, Boilers, Steam Generators, and Process Heaters – Phase 3 (amended October 16, 2008 ⇒ amended December 17, 2020)
- District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr (adopted October 16, 2008 ⇒ amended December 17, 2020)
- District Rule 4601, Architectural Coatings (amended December 17, 2009 ⇒ amended April 16, 2020)
- District Rule 4702, Internal Combustion Engines (amended November 14, 2013 ⇒ amended August 19, 2021)
- 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants (NESHAPS) for Stationary Reciprocating Internal Combustion Engines (amended August 10, 2022)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended April 23, 2021)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM) (amended January 3, 2017)

### B. Rules Removed

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

### C. Rules Added

There are no applicable rules that were added since the last Title V renewal.

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

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 2410, Prevention of Significant Deterioration (Adopted June 16, 2011, effective November, 26, 2012)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)
- District Rule 4305, Boilers, Steam Generators, and Process Heaters – Phase 2 (amended August 21, 2003)
- District Rule 4351, Boilers, Steam Generators, and Process Heaters – Phase 1 (amended August 21, 2003)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- 40 CFR Part 60 Subpart JJJJ – New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines (adopted January 18, 2008)
- 40 CFR Part 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (adopted June 13, 2007)
- 40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (adopted June 13, 2007)

#### **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  
(amended December 17, 1992)
- Title 17 CCR, Section 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines

**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 or most recent renewal of the Title V permit in 2018.

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

District Rule 2201 has been amended since this facility's Title V permit was last renewed. 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.

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

This rule has been amended since this facility's previous Title V permit was last renewed. The amendments to this rule were administrative, relating only to the notification procedures for Title V permit modifications that are required to go through a public notice. The amendments to the rule did not have any effect on the current permit requirements and will therefore not be addressed further in this evaluation. However, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

Greenhouse Gas Discussion

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

**C. District Rule 4306 - Boilers, Steam Generators, and Process Heaters – Phase 3**

This rule limits emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from boilers, steam generators, and process heaters. The rule is applicable to gaseous or liquid fuel-fired boilers, steam generators, or process heaters with a heat input greater than 5 million Btu per hour. The rule was last amended on December 17, 2020. The amended rule requires boilers, steam generators, and process heaters to meet the applicable NO<sub>x</sub> and CO limits listed in Table 2 on or after December 31, 2023 or December 31, 2029, depending on the category of the unit. The facility must submit an emission control plan and apply for Authority to Construct permits to modify their units subject to this rule by May 1, 2022 to comply with the revised emission limits.

The boilers, steam generators, and process heaters at this facility comply with the current emission limit requirements of Rule 4306 listed in Table 1. Table 2 requirements are not in effect yet. Therefore, no changes to the permits are required at this time since the units and their current permits comply with all current Rule 4306 requirements. An Authority to Construct permit application and emission control plan were submitted on April 28, 2022 to address the Table 2 emission limits.

**D. District Rule 4320 - Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr**

This rule limits emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO), oxides of sulfur (SO<sub>2</sub>), and particulate matter 10 microns or less (PM<sub>10</sub>) from boilers, steam generators, and process heaters. The Rule is applicable to gaseous or liquid fuel-fired boilers, steam generators, or process heaters with a heat input greater than 5 million Btu per hour. The rule was last amended on December 17, 2020.

The amended rule requires boilers, steam generators, and process heaters to meet the applicable NO<sub>x</sub> limits listed in Table 2 on or after December 31, 2023. The facility must submit an emission control plan and apply for Authority to Construct permits to modify their units subject to this rule by May 1, 2022 to comply with the revised emission limits.

The boilers, steam generators, and process heaters at this facility comply with the current emission limit requirements of Rule 4320 listed in Table 1. Table 2 requirements are not in effect yet. Therefore, no changes to the permits are required at this time since they are in compliance with all current Rule 4320 requirements. An Authority to Construct permit application and emission control plan were submitted on April 28, 2022 to address the Table 2 emission limits.



## **E. District Rule 4601 – Architectural Coatings**

This rule limits the emissions of VOC's from architectural coatings. The VOC content limits for coatings and colorants are listed in Tables 1 and 2, respectively, of Section 5.0 of the amended rule. This rule also specifies architectural coatings storage, cleanup, and labeling requirements.

The rule was amended in April 16, 2020 but the amended rule has not been SIP approved. The stringency analysis in Attachment D shows that the amended rule is as stringent as the SIP approved version of the rule that was adopted in December 17, 2009.

The following changes were included in the latest rule amendment that resulted in revising current permit requirements:

- Table of Standards 1 (through 12/31/2010) and Table of Standards 2 (after 1/1/2011) specifying the VOC content of different coatings and colorants have been replaced with Table 1 and Table 2 (effective after 1/1/2022) in Section 5.0.

To ensure compliance with Rule 4601 as amended 4/16/2020, conditions #23, 24, 25, of the current facility-wide permit N-96-0-2 will be replaced with conditions #23, 24, and 25 on the draft facility-wide permit N-96-0-3.

- o No person shall manufacture, blend, repackage, supply, market, sell, solicit or apply any architectural coating or colorant with a VOC content in excess of the applicable limits specified in Table 1 (Coatings) and Table 2 (Colorants) of District Rule 4601 (4/16/20), unless exempted under section 4.0 of District Rule 4601 (Amended 4/16/20). [District Rule 4601]
- o All VOC-containing materials subject to Rule 4601 (4/16/20) shall be stored in closed containers when not in use. [District Rule 4601, 5.4]
- o The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (4/16/20). [District Rule 4601, 6.1 and 6.3]

## **F. District Rule 4702 - Internal Combustion 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 engines. This rule applies to any internal combustion engine rated at 25 brake horsepower or greater. Compliance with the requirements and provisions of this rule for permit units N-1326-5-2, -14-2

and -15-2 were evaluated with projects N-1121966, N-1071264 and N-1113340 respectively and applicable requirements were incorporated into Title V permit through the Initial Title V permit issuance.

The latest changes to this rule, where applicable to emergency engines, did not result in new or more stringent regulatory controls changes and did not affect air quality of emission limitations to the requirements. Permit units subject to this rule are discussed individually below.

a. N-1326-14: 130 BHP DUETZ MODEL BF6M1012C TIER 1  
CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING A 80 KW ELECTRIC GENERATOR

- This engine is an emergency standby engine equipped with a nonresettable elapsed time meter. Therefore, the amended sections of this rule are not applicable to this engine. Because the amendments to District Rule 4702 do not affect the requirements for this permit unit and no additional conditions are required, the changes will not be addressed further.

b. N-1326-15: 96 BHP GENERAC MODEL 6.8GN NATURAL GAS-  
FIRED EMERGENCY STANDBY IC ENGINE POWERING AN  
ELECTRICAL GENERATOR

- This engine is an emergency standby engine equipped with a nonresettable elapsed time meter. Therefore, the amended sections of this rule are not applicable to this engine. Because the amendments to District Rule 4702 do not affect the requirements for this permit unit and no additional conditions are required, the changes will not be addressed further.

**G. 40 CFR Part 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants (NESHAPS) for Stationary Reciprocating Internal Combustion Engines**

Amendments to this section, since the most recent TV renewal, are only applicable to engines used to generate electricity to supplement the power grid in non-emergency situations as part of a financial arrangement. The permitted engines at this facility are only used in emergency situations and are not affected by these amendments. Therefore, the latest amendments to Subpart ZZZZ did not result in any changes to the permits for the engines at this site.

## H. 40 CFR Part 64 - Compliance Assurance Monitoring(CAM)

40 CFR Part 64 requires Compliance Assurance Monitoring 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 <sub>x</sub>	20,000
SO <sub>x</sub>	140,000
PM <sub>10</sub>	140,000
CO	200,000
VOC	20,000

40 CFR Part 64 also contains a number of exemptions. The following are some examples of emission limitations or standards explicitly exempt from CAM requirements:

- Ones proposed by EPA after November 15, 1990, including NSPS and MACT standards;
- Ones for which a Part 70 permit already specifies a continuous compliance determination method, as defined in 40 CFR Part 64.1;
- An emission cap that meets the requirements specified in 40 CFR Part 70.4(b)(12); and
- Acid Rain Program requirements of Title IV.

In addition, control devices equipped with continuous emissions monitors are exempt from CAM under the continuous compliance determination method exemption. A CAM applicability review is performed below for the permit units at the facility.

- a. N-1326-1-10: 130 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Model #D-RMB128 Burner and a Flue Gas Recirculation System

The boiler is equipped with a low NO<sub>x</sub> burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an

add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

Major source threshold for NO<sub>x</sub> = 20,000 lb/year  
Pre-control emission factor = 0.1 lb-NO<sub>x</sub>/MMBtu (API-42, 1.4-1))  
Controlled emission factor = 0.008 lb-NO<sub>x</sub>/MMBtu (permit limit)  
Annual hours of operation = 8,760

Annual emissions (pre-control) = 0.1 x 8,760 x 130 = 113,880 lb-NO<sub>x</sub>/year (113,880 lb-NO<sub>x</sub>/year > 20,000)

Annual emissions (controlled) = 0.008 x 8,760 x 130 = 9,110 lb-NO<sub>x</sub>/year (9,110 lb-NO<sub>x</sub>/year < 20,000)

CAM is required for NO<sub>x</sub> emissions since the pre-control potential to emit is greater than the major source threshold for NO<sub>x</sub>. Since the controlled NO<sub>x</sub> emission rate is less than major source threshold, a minimum monitoring frequency of 24 hours is required.

This unit will implement the requirements of CAM for the boiler by monitoring the flue gas recirculation valve setting as a surrogate to provide supplemental indication of NO<sub>x</sub> emission control performance. The monitoring design criteria of §64.3 are satisfied by proposed conditions 10 and 14 through 17.

- b. N-1326-2-11: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NO<sub>x</sub> Burner with an Induced Flue Gas Recirculation System

The boiler is equipped with a low NO<sub>x</sub> burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

Major source threshold for NO<sub>x</sub> = 20,000 lb/year  
Pre-control emission factor = 0.1 lb-NO<sub>x</sub>/MMBtu (API-42, 1.4-1))  
Controlled emission factor = 0.008 lb-NO<sub>x</sub>/MMBtu (permit limit)  
Annual hours of operation = 8,760

Annual emissions (pre-control) =  $0.1 \times 8,760 \times 120 = 105,120$  lb-NO<sub>x</sub>/year (105,120 lb-NO<sub>x</sub>/year > 20,000)

Annual emissions (controlled) =  $0.008 \times 8,760 \times 120 = 8,410$  lb-NO<sub>x</sub>/year (8,410 lb-NO<sub>x</sub>/year < 20,000)

CAM is required for NO<sub>x</sub> emissions since the pre-control potential to emit is greater than the major source threshold for NO<sub>x</sub>. Since the controlled NO<sub>x</sub> emission rate is less than major source threshold, a minimum monitoring frequency of 24 hours is required.

This unit will implement the requirements of CAM for the boiler by monitoring the flue gas recirculation valve setting as a surrogate to provide supplemental indication of NO<sub>x</sub> emission control performance. The monitoring design criteria of §64.3 are satisfied by proposed conditions 10 and 14 through 17.

- c. N-1326-3-12: 120 MMBtu/hr Nebraska Model #NS-F-81-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Low NO<sub>x</sub> Burner and a Flue Gas Recirculation System

The boiler is equipped with a low NO<sub>x</sub> burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

Major source threshold for NO<sub>x</sub> = 20,000 lb/year  
Pre-control emission factor = 0.1 lb-NO<sub>x</sub>/MMBtu (API-42, 1.4-1))  
Controlled emission factor = 0.008 lb-NO<sub>x</sub>/MMBtu (permit limit)  
Annual hours of operation = 8,760

Annual emissions (pre-control) =  $0.1 \times 8,760 \times 120 = 105,120$  lb-NO<sub>x</sub>/year (105,120 lb-NO<sub>x</sub>/year > 20,000)

Annual emissions (controlled) =  $0.008 \times 8,760 \times 120 = 8,410$  lb-NO<sub>x</sub>/year (8,410 lb-NO<sub>x</sub>/year < 20,000)

CAM is required for NO<sub>x</sub> emissions since the pre-control potential to emit is greater than the major source threshold for NO<sub>x</sub>. Since the controlled NO<sub>x</sub> emission rate is less than major source threshold, a minimum monitoring frequency of 24 hours is required.

This unit will implement the requirements of CAM for the boiler by monitoring the flue gas recirculation valve setting as a surrogate to provide supplemental indication of NO<sub>x</sub> emission control performance. The monitoring design criteria of §64.3 are satisfied by proposed conditions 10 and 14 through 17.

- d. N-1326-8-7: 205 MMBtu/hr Nebraska Model #N2S-7/S-95-Econ Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NO<sub>x</sub> Burner

The boiler is equipped with an ultra-low NO<sub>x</sub> burner (ULNB) with flue gas recirculation (FGR) and emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

Major source threshold for NO<sub>x</sub> = 20,000 lb/year  
 Pre-control emission factor = 0.1 lb-NO<sub>x</sub>/MMBtu (API-42, 1.4-1))  
 Controlled emission factor = 0.008 lb-NO<sub>x</sub>/MMBtu (permit limit)  
 Annual hours of operation = 8,760

Annual emissions (pre-control) = 0.1 x 8,760 x 205 = 179,580 lb-NO<sub>x</sub>/year (105,120 lb-NO<sub>x</sub>/year > 20,000)

Annual emissions (controlled) = 0.008 x 8,760 x 205 = 14,366 lb-NO<sub>x</sub>/year (14,366 lb-NO<sub>x</sub>/year < 20,000)

CAM is required for NO<sub>x</sub> emissions since the pre-control potential to emit is greater than the major source threshold for NO<sub>x</sub>. Since the controlled NO<sub>x</sub> emission rate is less than major source threshold, a minimum monitoring frequency of 24 hours is required.

This unit will implement the requirements of CAM for the boiler by monitoring the flue gas recirculation valve setting as a surrogate to provide supplemental indication of NO<sub>x</sub> emission control performance. The monitoring design criteria of §64.3 are satisfied by proposed conditions 10 and 14 through 17.

- e. N-1326-11-5: 90 MMBtu/hr Nebraska Model #NS-E-59 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Rapid Mix Ultra Low NO<sub>x</sub> Burner

The boiler is equipped with an ultra-low NO<sub>x</sub> burner (ULNB) with flue gas recirculation (FGR) and emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

Major source threshold for NO<sub>x</sub> = 20,000 lb/year  
Pre-control emission factor = 0.1 lb-NO<sub>x</sub>/MMBtu (API-42, 1.4-1))  
Controlled emission factor = 0.008 lb-NO<sub>x</sub>/MMBtu (permit limit)  
Annual hours of operation = 8,760

Annual emissions (pre-control) = 0.1 x 8,760 x 90 = 78,840 lb-NO<sub>x</sub>/year (78,840 lb-NO<sub>x</sub>/year > 20,000)

Annual emissions (controlled) = 0.008 x 8,760 x 90 = 6,307 lb-NO<sub>x</sub>/year (6,307 lb-NO<sub>x</sub>/year < 20,000)

CAM is required for NO<sub>x</sub> emissions since the pre-control potential to emit is greater than the major source threshold for NO<sub>x</sub>. Since the controlled NO<sub>x</sub> emission rate is less than major source threshold, a minimum monitoring frequency of 24 hours is required.

This unit will implement the requirements of CAM for the boiler by monitoring the flue gas recirculation valve setting as a surrogate to provide supplemental indication of NO<sub>x</sub> emission control performance. The monitoring design criteria of §64.3 are satisfied by proposed conditions 10 and 14 through 17.

- f. N-1326-12-6: 118.6 MMBtu/hr Nebraska Model #NSF-81 Natural Gas-Fired Boiler with a Todd/Radian Corporation Model #D-RMB Ultra Low NO<sub>x</sub> Burner

The boiler is equipped with an ultra-low NO<sub>x</sub> burner (ULNB) with flue gas recirculation (FGR) and emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

Major source threshold for NO<sub>x</sub> = 20,000 lb/year  
Pre-control emission factor = 0.1 lb-NO<sub>x</sub>/MMBtu (API-42, 1.4-1))  
Controlled emission factor = 0.008 lb-NO<sub>x</sub>/MMBtu (permit limit)  
Annual hours of operation = 8,760

Annual emissions (pre-control) =  $0.1 \times 8,760 \times 118.6 = 103,893$  lb-NO<sub>x</sub>/year (103,896 lb-NO<sub>x</sub>/year > 20,000)

Annual emissions (controlled) =  $0.008 \times 8,760 \times 118.6 = 8,311$  lb-NO<sub>x</sub>/year (8,311 lb-NO<sub>x</sub>/year < 20,000)

CAM is required for NO<sub>x</sub> emissions since the pre-control potential to emit is greater than the major source threshold for NO<sub>x</sub>. Since the controlled NO<sub>x</sub> emission rate is less than major source threshold, a minimum monitoring frequency of 24 hours is required.

This unit will implement the requirements of CAM for the boiler by monitoring the flue gas recirculation valve setting as a surrogate to provide supplemental indication of NO<sub>x</sub> emission control performance. The monitoring design criteria of §64.3 are satisfied by proposed conditions 10 and 14 through 17.

- g. N-1326-13-4: 8.4 MMBtu/hr Hurst Model #SA-G-200-200 Natural Gas-Fired Boiler with an Industrial Combustion Model #LNDG-1455-20 Low NO<sub>x</sub> Burner with Flue Gas Recirculation

The boiler is equipped with a low NO<sub>x</sub> burner (LNB) with flue gas recirculation (FGR) and emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. The unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC since it does not have add-on controls for these criteria pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

Major source threshold for NO<sub>x</sub> = 20,000 lb/year  
Pre-control emission factor = 0.1 lb-NO<sub>x</sub>/MMBtu (API-42, 1.4-1))  
Controlled emission factor = 0.008 lb-NO<sub>x</sub>/MMBtu (permit limit)  
Annual hours of operation = 8,760

Annual emissions (pre-control) =  $0.1 \times 8,760 \times 8.4 = 7,358$  lb-NO<sub>x</sub>/year (7,358 lb-NO<sub>x</sub>/year < 20,000)

Annual emissions (controlled) =  $0.008 \times 8,760 \times 118.6 = 8,311$  lb-NO<sub>x</sub>/year (8,311 lb-NO<sub>x</sub>/year < 20,000)



CAM is not required for NO<sub>x</sub> emissions since the pre-control potential is less than the major source threshold for NO<sub>x</sub>.

- h. N-1326-14-3: 130 Bhp Duetz Model BF6M1012C Tier 1 Certified Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

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

- i. N-1326-15-3: 96 Bhp Generac Model 6.8GN Natural Gas-Fired Emergency Standby IC Engine Powering an Electrical Generator

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

**I. 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, as amended regarding the servicing of motor vehicle air conditioners (MVACs), and to implement section 608 of the Clean Air Act regarding certain servicing, maintenance, repair and disposal of air conditioners in MVACs and MVAC-like appliances.

These regulations apply to any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner.

The amendments to this subpart did not have any effect on the current permit requirements and will therefore not be addressed further in this evaluation. The following condition on the draft renewed permit is a mechanism to ensure compliance with the requirements of this subpart:

Permit Unit	Condition #
N-1326-0-3	28

**J. 40 CFR Part 82 Subpart F – Servicing of Motor Vehicle Air Conditioners**

The purpose of 40 CFR Part 82 Subpart F is to reduce emissions of class I and class II refrigerants and their substitutes to the lowest achievable level by maximizing the recapture and recycling of such refrigerants during the service, maintenance, repair, and disposal of appliances and restricting the sale of

refrigerants consisting in whole or in part of a class I and class II ODS in accordance with Title VI of the Clean Air Act.

These regulations apply to any person servicing, maintaining, or repairing appliances. This subpart also applies to persons disposing of appliances, including small appliances and motor vehicle air conditioners. In addition, this subpart applies to refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturer of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II refrigerants.

The amendments to this subpart do not have any effect on the current permit requirements and therefore will not be addressed further in this evaluation.

Permit Unit	Condition #
N-1326-0-3	27

## 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-1326-0-3).

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

This Title V permit renewal does not include any proposals for new permit shields or modifications to any pre-existing permit shields. The proposed renewed Title V permit therefore does not include any new or modified permit shields.

## **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
- D. Rule 4601 Stringency Analysis

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ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: N-1326-0-3

EXPIRATION DATE: 09/30/2022

## 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: MORNING STAR PACKING COMPANY  
Location: 13448 S VOLTA RD, LOS BANOS, CA 93635  
N-1326-0-3 : Dec 19 2022 9:57AM -- ROBINSOM

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. No person shall manufacture, blend, repackage, supply, market, sell, solicit or apply any architectural coating or colorant with a VOC content in excess of the applicable limits specified in Table 1 (Coatings) and Table 2 (Colorants) of District Rule 4601 (4/16/20), unless exempted under section 4.0 of District Rule 4601 (Amended 4/16/20). [District Rule 4601] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (4/16/20) shall be stored in closed containers when not in use. [District Rule 4601] 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 (4/16/20). [District Rule 4601] 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

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

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



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-1-10

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NO<sub>x</sub> emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NO<sub>x</sub> emissions shall not exceed 7 ppmvd @ 3% O<sub>2</sub> or 0.008 lb/MMBtu referenced as NO<sub>2</sub>. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SO<sub>x</sub> emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM<sub>10</sub> emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O<sub>2</sub> or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O<sub>2</sub> or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO<sub>x</sub> and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
16. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. 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
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. 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
22. NO<sub>x</sub> 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
23. 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
24. Stack gas oxygen (O<sub>2</sub>) 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
25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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
27. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. 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
29. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
30. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
31. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
32. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
33. 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
34. 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
35. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub>) (lb/MMBtu heat input) measured or predicted; the 30-day average NO<sub>x</sub> emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> 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
37. {5026} Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NO<sub>x</sub> emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NO<sub>x</sub> emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-2-11

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
16. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. 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
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. 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
22. 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
23. 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
24. 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
25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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
27. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. 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
29. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
30. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
31. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
32. The NOx emission limit (as NO<sub>2</sub>) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
33. 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
34. 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
35. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub>) (lb/MMBtu heat input) measured or predicted; the 30-day average NO<sub>x</sub> emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> 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
37. {5026} Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NO<sub>x</sub> emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NO<sub>x</sub> emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-3-12

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emission shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
16. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. 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
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. 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
22. 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
23. 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
24. 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
25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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
27. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. 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
29. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
30. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
31. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
32. The NOx emission limit (as NO<sub>2</sub>) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
33. 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
34. 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
35. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub>) (lb/MMBtu heat input) measured or predicted; the 30-day average NO<sub>x</sub> emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> 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
37. {5026} Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NO<sub>x</sub> emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NO<sub>x</sub> emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-8-7

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
16. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. 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
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. 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
22. 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
23. 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
24. 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
25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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
27. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. 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
29. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
30. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
31. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
32. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
33. 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
34. 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
35. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub>) (lb/MMBtu heat input) measured or predicted; the 30-day average NO<sub>x</sub> emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> 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
37. {5026} Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NO<sub>x</sub> emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NO<sub>x</sub> emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-11-5

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201 and 40 CFR 60.48c] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
16. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. 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
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. 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
22. 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
23. 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
24. 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
25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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
27. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. 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
29. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
30. Records of the monthly fuel usage of this boiler shall be kept and shall be maintained on the premises at all times. [District Rule 2201 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
31. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
32. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
33. {5026} Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-12-6

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #C-RMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION SYSTEM.

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.005 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305, 4306, and 4320 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level established in the most recent source test 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 demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting either by using a District-approved portable analyzer, or by conducting a source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
16. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. 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
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. 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
22. NO<sub>x</sub> 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
23. 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
24. Stack gas oxygen (O<sub>2</sub>) 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
25. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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
27. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. 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
29. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
30. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
31. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
32. The NOx emission limit (as NO<sub>2</sub>) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
33. 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
34. 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
35. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NO<sub>x</sub> emission rates (expressed as NO<sub>2</sub>) (lb/MMBtu heat input) measured or predicted; the 30-day average NO<sub>x</sub> emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> 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
37. {5026} Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NO<sub>x</sub> emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NO<sub>x</sub> emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-13-4

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

8.4 MMBTU/HR HURST MODEL #SA-G-200-200 NATURAL GAS-FIRED BOILER WITH A WEBSTER HDRMB ULTRA-LOW NOX BURNER WITH FLUE GAS RECIRCULATION (FGR)

## PERMIT UNIT REQUIREMENTS

1. 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
2. {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]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The boiler shall only be fired on PUC-quality natural gas. [District Rules 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
5. The emissions from the boiler shall not exceed any of the following limits when fired on natural gas fuel: 9 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> (equivalent to 0.011 lb-NO<sub>x</sub>/MMBtu), 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.005 lb-PM<sub>10</sub>/MMBtu, 50 ppmvd CO @ 3% O<sub>2</sub> (equivalent to 0.037 lb-CO/MMBtu), and 2 ppmvd VOC @ 3% O<sub>2</sub> (equivalent to 0.001 lb-VOC/MMBtu). [District Rules 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
6. The combined NO<sub>x</sub> emissions from the boilers operating under permits to operate (PTOs) N-1326-1, -2, -3, -8, -11, -12, and -13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Source testing to measure NO<sub>x</sub> and CO emissions from the boiler shall be conducted at least once every 12 months. After demonstrating compliance on two 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 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
8. NO<sub>x</sub> 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, 4320, and 4351] Federally Enforceable Through Title V Permit
9. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
10. VOC emissions for source test purposes shall be determined using EPA Method 18 or EPA Method 25. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
12. Stack gas velocities shall be determined using EPA Method 2 or 19. [District Rules 4305, 4306, 4320, and 4351] 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. Stack gas moisture content shall be determined using EPA Method 4. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
14. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
15. 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
16. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, 4320, and 4351] 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, 4320, and 4351] 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 at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, 4320, and 4351] 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 per Rules 4305 and 4306 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, 4320, and 4351] 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, 4320, and 4351] 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, 4320, and 4351] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, 4320, and 4351] 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. When the 36-month source testing frequency is in effect for the boiler, the owner/operator shall tune the boiler at least twice each calendar year. The boiler tuning shall be performed within four to eight months of the previous bi-annual tuning date. All equipment tuning shall be performed by a technician that is qualified, to the satisfaction of the APCO. Tuning shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). Permittee shall keep records of each calendar date that the boiler equipment tuning is performed. [District Rules 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
25. Permittee shall determine the natural gas fuel sulfur content 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. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, -2, -3, -8, -11, -12, and -13 shall be updated daily. [District Rule 2201] Federally Enforceable Through Title V Permit
27. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
28. {5026} Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-14-3

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from this IC engine shall not exceed any of the following limits: 6.5 g-NOx/bhp-hr, 1.3 g-CO/bhp-hr, or 0.3 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. 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-1326-15-3

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

96 BHP GENERAC MODEL 6.8GN NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This IC engine shall be fired on Public Utility Commission (PUC) regulated natural gas only. [District Rules 2201 and 4801] 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. This IC engine shall be equipped with a three-way catalyst/non-selective catalytic reduction system and air-to-fuel ratio controller and shall be fired on natural gas fuel only. [District Rule 2201 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rules, 2201, 4702, and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 0.02 g-NO<sub>x</sub>/bhp-hr, 0.063 g-PM<sub>10</sub>/bhp-hr, 0.35 g-CO/bhp-hr, or 0.22 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 2201, 4702, and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 2201, 4702, and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. For units at unstaffed sites or operated remotely, records may be maintained and retained at a District-approved off-site location. [District Rule 4702] Federally Enforceable Through Title V Permit

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

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ATTACHMENT B

Previous Title V Operating Permit

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# Permit to Operate

**FACILITY:** N-1326

**EXPIRATION DATE:** 09/30/2022

**LEGAL OWNER OR OPERATOR:**

MORNING STAR PACKING COMPANY

**MAILING ADDRESS:**

13448 S VOLTA RD  
LOS BANOS, CA 93635

**FACILITY LOCATION:**

13448 S VOLTA RD  
LOS BANOS, CA 93635

**FACILITY DESCRIPTION:**

AGRICULTURAL PRODUCTS PROCESSING

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

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

**Samir Sheikh**  
Executive Director / APCO

**Brian Clements**  
Director of Permit Services



# San Joaquin Valley Air Pollution Control District

**FACILITY:** N-1326-0-2

**EXPIRATION DATE:** 09/30/2022

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 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: MORNING STAR PACKING COMPANY  
Location: 13448 S VOLTA RD, LOS BANOS, CA 93635  
N-1326-0-2 : Dec 12 2022 10:54AM -- ROBINSOM

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

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-1-9

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit
34. Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-2-10

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit
34. Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-3-11

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emission shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0052 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit
34. Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-8-6

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. 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
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit
34. Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-11-4

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201 and 40 CFR 60.48c] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.0033 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the monthly fuel usage of this boiler shall be kept and shall be maintained on the premises at all times. [District Rule 2201 and 40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
28. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall be kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
29. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
30. Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-12-5

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #C-RMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION SYSTEM.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O<sub>2</sub> or 0.008 lb/MMBtu referenced as NO<sub>2</sub>. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM<sub>10</sub> emissions shall not exceed 0.005 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O<sub>2</sub> or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O<sub>2</sub> or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The flue gas recirculation valve(s) setting shall be monitored on a daily 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 24 hours of restarting the unit unless monitoring has been performed within the last day. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305, 4306, and 4320 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level established in the most recent source test 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 demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting either by using a District-approved portable analyzer, or by conducting a source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
26. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
27. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
29. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit
30. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit
31. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit
33. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit
34. Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-13-3

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

8.4 MMBTU/HR HURST MODEL #SA-G-200-200 NATURAL GAS-FIRED BOILER WITH A WEBSTER HDRMB ULTRA-LOW NOX BURNER WITH FLUE GAS RECIRCULATION (FGR)

## PERMIT UNIT REQUIREMENTS

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1. 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
2. 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]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The boiler shall only be fired on PUC-quality natural gas. [District Rules 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
5. The emissions from the boiler shall not exceed any of the following limits when fired on natural gas fuel: 9 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> (equivalent to 0.011 lb-NO<sub>x</sub>/MMBtu), 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.005 lb-PM<sub>10</sub>/MMBtu, 50 ppmvd CO @ 3% O<sub>2</sub> (equivalent to 0.037 lb-CO/MMBtu), and 2 ppmvd VOC @ 3% O<sub>2</sub> (equivalent to 0.001 lb-VOC/MMBtu). [District Rules 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
6. The combined NO<sub>x</sub> emissions from the boilers operating under permits to operate (PTOs) N-1326-1, -2, -3, -8, -11, -12, and -13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Source testing to measure NO<sub>x</sub> and CO emissions from the boiler shall be conducted at least once every 12 months. After demonstrating compliance on two 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 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
8. NO<sub>x</sub> 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, 4320, and 4351] Federally Enforceable Through Title V Permit
9. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
10. VOC emissions for source test purposes shall be determined using EPA Method 18 or EPA Method 25. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
12. Stack gas velocities shall be determined using EPA Method 2 or 19. [District Rules 4305, 4306, 4320, and 4351] 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. Stack gas moisture content shall be determined using EPA Method 4. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
14. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
15. 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
16. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, 4320, and 4351] 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, 4320, and 4351] 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 at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, 4320, and 4351] 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 per Rules 4305 and 4306 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, 4320, and 4351] 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, 4320, and 4351] 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, 4320, and 4351] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, 4320, and 4351] 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. When the 36-month source testing frequency is in effect for the boiler, the owner/operator shall tune the boiler at least twice each calendar year. The boiler tuning shall be performed within four to eight months of the previous bi-annual tuning date. All equipment tuning shall be performed by a technician that is qualified, to the satisfaction of the APCO. Tuning shall be conducted in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). Permittee shall keep records of each calendar date that the boiler equipment tuning is performed. [District Rules 2201, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
25. Permittee shall determine the natural gas fuel sulfur content 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. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, -2, -3, -8, -11, -12, and -13 shall be updated daily. [District Rule 2201] Federally Enforceable Through Title V Permit
27. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
28. Pursuant to Rule 4320, beginning January 1, 2025 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in the December 17, 2020 version of Rule 4320. [District Rule 4320]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1326-14-2

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

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

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from this IC engine shall not exceed any of the following limits: 6.5 g-NOx/bhp-hr, 1.3 g-CO/bhp-hr, or 0.3 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. 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-1326-15-2

**EXPIRATION DATE:** 09/30/2022

**EQUIPMENT DESCRIPTION:**

96 BHP GENERAC MODEL 6.8GN NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This IC engine shall be fired on Public Utility Commission (PUC) regulated natural gas only. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. This IC engine shall be equipped with a three-way catalyst/non-selective catalytic reduction system and air-to-fuel ratio controller and shall be fired on natural gas fuel only. [District Rule 2201 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rules, 2201, 4702, and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 0.02 g-NO<sub>x</sub>/bhp-hr, 0.063 g-PM<sub>10</sub>/bhp-hr, 0.35 g-CO/bhp-hr, or 0.22 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702 and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 2201, 4702, and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 2201, 4702, and 40 CFR 60 Subpart JJJJ] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. For units at unstaffed sites or operated remotely, records may be maintained and retained at a District-approved off-site location. [District Rule 4702] Federally Enforceable Through Title V Permit

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

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ATTACHMENT C

Detailed Summary List of Facility Permits

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SJVUAPCD  
NORTHERN

**Detailed Facility Report**  
For Facility=1326  
Sorted by Facility Name and Permit Number

12/12/22  
4:50 pm

<b>MORNING STAR PACKING COMPANY</b> 13448 S VOLTA RD LOS BANOS, CA 93635	FAC # STATUS: TELEPHONE:	<b>N 1326</b> <b>A</b> <b>2098268000</b>	TYPE: TOXIC ID:	<b>TitleV</b> <b>70156</b>	EXPIRE ON: AREA: INSP. DATE:	<b>09/30/2022</b> <b>2 /</b> <b>07/23</b>
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1326-1-9	130 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	130 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN MODEL #D-RMB128 BURNER AND A FLUE GAS RECIRCULATION SYSTEM
N-1326-2-10	120 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER WITH AN INDUCED FLUE GAS RECIRCULATION SYSTEM
N-1326-3-11	120 MMBtu/hr burner	3020-02 H	1	1,238.00	1,238.00	A	120 MMBTU/HR NEBRASKA MODEL #NS-F-81-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB LOW NOX BURNER AND A FLUE GAS RECIRCULATION SYSTEM
N-1326-4-0	4,200 KBTU	3020-02 F	1	731.00	731.00	D	BOILER, HURST, 4.2 MMBTU/HR ***** PERMIT DELETED PER MR. CHRIS RUFER'S REQUEST. LETTER DATED 07-30-93 FROM MORNING STAR IS IN THE PREMISE FILE ****
N-1326-5-2	244 BHP IC ENGINE	3020-10 C	1	290.00	290.00	D	244 BHP CUMMINS MODEL 6BTA-5.9 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
N-1326-6-0	78 BHP IC ENGINE	3020-10 A	1	98.00	98.00	D	78 BHP DEUTZ MODEL F6L-912 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-1326-8-6	205 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	205 MMBTU/HR NEBRASKA MODEL #N2S-7/S-95-ECON NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER
N-1326-11-4	90 MMBtu/hr burner	3020-02 H	1	1,238.00	1,238.00	A	90 MMBTU/HR NEBRASKA MODEL #NS-E-59 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB RAPID MIX ULTRA LOW NOX BURNER
N-1326-12-5	118.6 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #C-RMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION SYSTEM.
N-1326-13-3	8,400 kBtu/hr burner	3020-02 G	1	980.00	980.00	A	8.4 MMBTU/HR HURST MODEL #SA-G-200-200 NATURAL GAS-FIRED BOILER WITH A WEBSTER HDRMB ULTRA-LOW NOX BURNER WITH FLUE GAS RECIRCULATION (FGR)
N-1326-14-2	130 bhp	3020-10 B	1	143.00	143.00	A	130 BHP DUETZ MODEL BF6M1012C TIER 1 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 80 KW ELECTRIC GENERATOR
N-1326-15-2	96 BHP	3020-10 A	1	98.00	98.00	A	96 BHP GENERAC MODEL 6.8GN NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Number of Facilities Reported: 1

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ATTACHMENT D

Rule 4601 Stringency Analysis

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**Stringency Comparison of District Rule 4601 Non-SIP Version (4/16/20) to Current SIP Version (12/17/09)**

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
2.0 Applicability	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.	This rule is applicable to any person who supplies, markets, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.	The only change is to include applicability of this rule to the person marketing the coatings, therefore, non-SIP version of rule is more stringent than SIP version.
4.0 Exemptions	<p>4.1 The provisions of this rule shall not apply to:</p> <p>4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.1.2 Any aerosol coating product.</p> <p>4.2 With the exception of Section 6.2, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less.</p>	<p>4.1 The provisions of this rule shall not apply to:</p> <p>4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.1.2 Any aerosol coating product.</p> <p>4.2 With the exception of Section 6.2 and Section 4.3, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less, provided the following requirements are met:</p> <p>4.2.1 The coating container is not bundled together with other containers of the same specific coating category (listed in Table 1) to be sold as a unit that exceeds one liter (1.057 quart), excluding containers packed together for shipping to a retail outlet, and</p> <p>4.2.2 The label or any other product literature does not suggest combining multiple containers of the same specific category (listed in Table 1) so that the combination exceeds one liter (1.057 quart).</p> <p>4.3 On and after sixty days following the effective date of EPA final rulemaking that the conditions described in Clean Air Act Sections 172(c)(9) and 182(c)(9) have occurred in the San Joaquin Valley regarding the 2008 8-hour Ozone National Ambient Air Quality Standard, the categories of coatings listed below shall no longer be exempt from the provisions of Table 1 of this rule when sold in containers having capacities of one liter (1.057 quarts) or less:</p> <p>4.3.1 Bituminous Roof Coatings;</p> <p>4.3.2 Flat Coatings that are sold in containers having capacities greater than eight fluid ounces;</p> <p>4.3.3 Magnesite Cement Coatings;</p> <p>4.3.4 Multi-Color Coatings;</p>	The exemptions for colorant and for architectural coatings sold in a container with a volume of one liter (1.057 quarts) or less have been added to the rule in order to make the amended rule consistent with the exemptions presented in 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
		<p>4.3.5 Nonflat Coatings that are sold in containers having capacities greater than eight fluid ounces;</p> <p>4.3.6 Pre-Treatment Wash Primers;</p> <p>4.3.7 Reactive Penetrating Sealers;</p> <p>4.3.8 Shellacs (Clear and Opaque);</p> <p>4.3.9 Stone Consolidants;</p> <p>4.3.10 Swimming Pool Coatings;</p> <p>4.3.11 Tub and Tile Refinishing Coatings;</p> <p>4.3.12 Wood Coatings, including Lacquers, Varnishes, and Sanding Sealers; and</p> <p>4.3.13 Wood Preservatives.</p> <p>4.4 Colorant added at the factory or at the worksite is not subject to the VOC limits in Table 2. In addition, containers of colorant sold at the point of sale for use in the field or on a job site are also not subject to the VOC limit in Table 2.</p>	
<p><b>5.0 Requirements</b></p>	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall manufacture, blend, or repackage for use within the District; or supply, sell, or offer for sale within the District; or solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards 1 or the Table of Standards 2, after the specified effective date in the Table of Standards 1 or the Table of Standards 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.</p>	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall manufacture, blend, or repackage for use within the District; or supply, sell, market or offer for sale within the District; or solicit for application or apply within the District any architectural coating or colorant with a VOC content in excess of the corresponding limit specified in Table 1 or Table 2, after the specified effective date in Table 1 or Table 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.</p>	<p><b>The Table of Standards 1 and the Table of Standard 2 have been replaced with more stringent Table 1 with VOC content limit for coatings and Table 2 with VOC content limit for colorants with more stringent VOC limits as shown in the tables at the end of this document. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</b></p>
	<p>5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in the Table of Standards 1 or the Table of Standards 2, then that coating is not required to meet the VOC limits for Flat, Nonflat, or Nonflat – High Gloss coatings, but is required to meet the VOC limit for the applicable specialty coating listed in the Table of Standards 1 or the Table of Standards 2.</p> <p>5.2.1 Effective until December 31, 2010, with the exception of the specialty coating categories specified in Section 5.2.3.1 through 5.2.3.15, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 1, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.2 Effective on and after January 1, 2011, with the exception of the specialty coating categories specified in Sections 5.2.3.2, 5.2.3.3, 5.2.3.5 through 5.2.3.9, and 5.2.3.14 through 5.2.3.18, if a coating is recommended for use in more than one of the</p>	<p>5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in Table 1 or, then that coating is not required to meet the VOC limits for Flat or Nonflat coatings, but is required to meet the VOC limit for the applicable specialty coating listed in Table 1 or . With the exception of the specialty coating categories specified in Sections 5.2.1 through 5.2.12, if a coating is recommended for use in more than one of the specialty coating categories listed in Table 1, then the most restrictive (or lowest) VOC content limit shall apply. This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.</p>	<p><b>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</b></p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>specialty coating categories listed in the Table of Standards 2, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.3 This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.</p> <p>5.2.3.1 Lacquer coatings (including lacquer sanding sealers)</p> <p>5.2.3.2 Metallic pigmented coatings</p> <p>5.2.3.3 Shellacs</p> <p>5.2.3.4 Fire-retardant coatings</p> <p>5.2.3.5 Pretreatment wash primers</p> <p>5.2.3.6 Industrial maintenance coatings</p> <p>5.2.3.7 Low-solids coatings</p> <p>5.2.3.8 Wood preservatives</p> <p>5.2.3.9 High temperature coatings</p> <p>5.2.3.10 Temperature-indicator safety coatings</p> <p>5.2.3.11 Antenna coatings</p> <p>5.2.3.12 Antifouling coatings</p> <p>5.2.3.13 Flow coatings</p> <p>5.2.3.14 Bituminous roof primers</p> <p>5.2.3.15 Specialty primers, sealers and undercoaters</p> <p>5.2.3.16 Aluminum roof coatings</p> <p>5.2.3.17 Zinc-rich primers</p> <p>5.2.3.18 Wood Coatings</p>	<p>5.2.1 Metallic pigmented coatings;</p> <p>5.2.2 Shellacs;</p> <p>5.2.3 Pretreatment wash primers;</p> <p>5.2.4 Industrial maintenance coatings;</p> <p>5.2.5 Low-solids coatings;</p> <p>5.2.6 Wood preservatives;</p> <p>5.2.7 High temperature coatings;</p> <p>5.2.8 Bituminous roof primers;</p> <p>5.2.9 Specialty primers, sealers and undercoaters;</p> <p>5.2.10 Aluminum roof coatings;</p> <p>5.2.11 Zinc-rich primers; and</p> <p>5.2.12 Wood Coatings.</p>	
	<p>5.3 Sell-Through of Coatings: A coating manufactured prior to the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2, and that complied with the standards in effect at the time the coating was manufactured, may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2 may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1.</p>	<p>5.3 Sell-Through of Coatings: 5.3.1 A coating manufactured prior to January 1, 2022, may be sold, supplied, or offered for sale for up to three years after January 1, 2022. In addition, a coating manufactured before January 1, 2022 may be applied at any time, both before and after January 1, 2022, so long as the coating complied with the standards in effect at the time the coating was manufactured. This subsection 5.3.1 does not apply to any coating that does not display the date or date-code required by subsection 6.1.1. 5.3.2 A colorant manufactured prior to January 1, 2022, may be sold, supplied, or offered for sale for up to three years after January 1, 2022. In addition, a colorant manufactured before January 1, 2022 may be applied at any time, both before and after January 1, 2022, so long as the colorant complied with the standards in effect at the time the colorant was manufactured. This subsection 5.3.2 does not apply to any colorant that does not display the date or date-code required by subsection 6.1.1.</p>	<p><b>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</b></p>
	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means,</p>	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding,</p>	<p><b>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</b></p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.	ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.	
	5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.	5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.	<b>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</b>
	5.6 Rust Preventative Coatings: Effective through December 31, 2010, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards 1.		<b>The VOC limit of the SIP version is no longer applicable at this time and has been removed.</b>
	5.7 Coatings Not Listed in the Table of Standards 1 or the Table of Standards 2: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards 1 or the Table of Standards 2, the VOC content limit shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat – High Gloss coating, based on its gloss, and the corresponding Flat, Nonflat, or Nonflat – High Gloss VOC limit in the Table of Standards 1 or the Table of Standards 2 shall apply.	5.6 Coatings Not Listed in Table 1: For any coating that does not meet any of the definitions for the specialty coatings categories listed in Table 1, the VOC content limit shall be determined by classifying the coating as Flat or Nonflat, based on its gloss, and the corresponding Flat or Nonflat VOC limit in Table 1 shall apply.	<b>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</b>
		5.7 Colorants: No person within the District shall, at the point of sale of any architectural coating subject to subsection 5.1, add to such coating any colorant that contains VOCs in excess of the corresponding applicable VOC limit specified in Table 2. The point of sale includes retail outlets that add colorant to a coating container to obtain a specific color.	<b>The VOC limit for colorants in non-SIP version more stringent than the SIP version of the rule.</b>
	5.8 Prior to January 1, 2011, any coating that meets a definition in Section 3.0 for a coating category listed in the Table of Standards 2 and complies with the applicable VOC limit in the Table of Standards 2 and with Sections 5.2 and 6.1 (including those provision of Section 6.1 otherwise effective on January 1, 2011) shall be considered in compliance with this rule.		<b>The VOC limit of the SIP version is no longer applicable at this time and has been removed.</b>
Table of Standards 1 (Effective on and after 1/1/11)		Table 1 VOC Content Limits for Coatings (Effective on and after 1/1/22) (See end of the document for Table Comparison)	<b>The requirements of Table of Standard 1 are more stringent than the Table 1 in the SIP rule. Therefore, non-SIP version of rule is as stringent as SIP version.</b>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	Table of Standards 2 (Effective on and after 1/1/11)	Table 2 VOC Content Limits for Colorants (Effective on and after 1/1/22) (See end of the document for Table Comparison)	VOC content limits for colorants were added under the amended rule. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
6.0 Administrative Requirements	<p>6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections 6.1.1 through 6.1.14 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:</p> <p>6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or</p> <p>6.1.3.2 VOC Content, as determined from actual formulation data; or</p> <p>6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.</p> <p>If the manufacturer does not recommend thinning, the container must display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.1.4 Faux Finishing Coatings: Effective January 1, 2011, the labels of all clear topcoat Faux Finishing coatings shall prominently display the statement "This product can only be sold or used as part</p>	<p>6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections 6.1.1 through 6.1.12 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:</p> <p>6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or</p> <p>6.1.3.2 VOC Content, as determined from actual formulation data; or</p> <p>6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.</p> <p>If the manufacturer does not recommend thinning, the container must display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing. VOC Content shall be determined as defined in subsections</p>	The non-SIP approved rule contain sections listed in the SIP rule plus additional requirements not found in the SIP version for colorants. Therefore, non-SIP version of rule is as stringent as SIP version.

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>of a Faux Finishing coating system”.</p> <p>6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</p> <p>6.1.5.1 “For industrial use only”</p> <p>6.1.5.2 “For professional use only”</p> <p>6.1.5.3 “Not for residential use” or “Not intended for residential use”</p> <p>6.1.6 Clear Brushing Lacquers: The labels of all clear brushing lacquers shall prominently display the statements “For brush application only,” and “This product must not be thinned or sprayed.” (Category deleted effective January 1, 2011.)</p> <p>6.1.7 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement “For Metal Substrates Only”.</p> <p>6.1.8 Specialty Primers, Sealers and Undercoaters: Effective until December 31, 2010, the labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the descriptions listed in Section 6.1.8.1 through 6.1.8.5. Effective on and after January 1, 2011, the labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the descriptions listed in Sections 6.1.8.1 through 6.1.8.3. On and after January 1, 2011, Sections 6.1.8.4 and 6.1.8.5 will be no longer effective.</p> <p>6.1.8.1 For fire-damaged substrates.</p> <p>6.1.8.2 For smoke-damaged substrates.</p> <p>6.1.8.3 For water-damaged substrates.</p> <p>6.1.8.4 For excessively chalky substrates.</p> <p>6.1.8.5 For blocking stains.</p> <p>6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words “Quick Dry” and the dry hard time. (Category deleted effective January 1, 2011.)</p> <p>6.1.10 Reactive Penetrating Sealers: Effective January 1, 2011, the labels of all Reactive Penetrating Sealers shall prominently display the statement “Reactive Penetrating Sealer.”</p> <p>6.1.11 Stone Consolidants: Effective January 1, 2011, the labels of all Stone Consolidants shall prominently display the statement “Stone Consolidant - For Professional Use Only.”</p> <p>6.1.12 Nonflat– High Gloss Coatings: The labels of all Nonflat – high gloss coatings shall prominently display the words “High Gloss.”</p>	<p>3.72, 3.73, and 3.74.</p> <p>6.1.4 Faux Finishing Coatings: The labels of all clear topcoat Faux Finishing coatings shall prominently display the statement “This product can only be sold or used as part of a Faux Finishing coating system”.</p> <p>6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</p> <p>6.1.5.1 “For industrial use only”</p> <p>6.1.5.2 “For professional use only”</p> <p>6.1.6 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement “For Metal Substrates Only”.</p> <p>6.1.7 Specialty Primers, Sealers and Undercoaters: The labels of all specialty primers, sealers, and undercoaters shall prominently display the statement “Specialty Primer, Sealer, Undercoater”</p> <p>6.1.8 Reactive Penetrating Sealers: The labels of all Reactive Penetrating Sealers shall prominently display the statement “Reactive Penetrating Sealer.”</p> <p>6.1.9 Stone Consolidants: The labels of all Stone Consolidants shall prominently display the statement “Stone Consolidant - For Professional Use Only.”</p> <p>6.1.10 Wood Coatings: The labels of all Wood Coatings shall prominently display the statement “For Wood Substrates Only.”</p> <p>6.1.11 Zinc Rich Primers: The labels of all Zinc Rich Primers shall prominently display the statement “For professional use only.</p> <p>6.1.12 Colorants: Effective January 1, 2022, each manufacturer of any colorant subject to this rule shall display the information listed in subsections 6.1.12.1 and 6.1.12.2 on the container (or label) in which the colorant is sold or distributed.</p> <p>6.1.12.1 Date Code: The date the colorant was manufactured, or a date code representing the date, shall be indicated on the label, lid, or bottom of the container. If the manufacturer uses a date code for any colorant, the manufacturer shall file an explanation of each code with the APCO.</p> <p>6.1.12.2 VOC Content: Each container of any colorant subject to this rule shall display one of the following values in grams of VOC per liter of</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>6.1.13 Wood Coatings: Effective January 1, 2011, the labels of all Wood Coatings shall prominently display the statement "For Wood Substrates Only."</p> <p>6.1.14 Zinc Rich Primers: Effective January 1, 2011, the labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1 through 6.1.14.3.</p> <p>6.1.14.1 "For industrial use only"</p> <p>6.1.14.2 "For professional use only"</p> <p>6.1.14.3 "Not for residential use" or "Not intended for residential use"</p>	<p>colorant.</p> <p>6.1.12.2.1 Maximum VOC Content as determined from all potential product formulations; or</p> <p>6.1.12.2.2 VOC Content as determined from actual formulation data; or</p> <p>6.1.12.2.3 VOC Content as determined using the test methods in subsection 6.3.2.</p> <p>If the colorant contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing. VOC Content shall be determined as defined in subsections 3.72, 3.73, and 3.74.</p>	
	<p>6.2 Reporting Requirements</p> <p>The reporting requirements specified in Sections 6.2.1 through 6.2.6 shall apply until December 31, 2010.</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of</p>	<p>6.2 Reporting Requirements</p> <p>6.2.1 Sales Data: All sales data listed in Sections 6.2.1.1 to 6.2.1.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of CARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17, California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections 6.2.1.1 through 6.2.1.14:</p> <p>6.2.1.1 The name and mailing address of the manufacturer;</p> <p>6.2.1.2 The name, address and telephone number of a contact person;</p> <p>6.2.1.3 The name of the coating product as it appears on the label and the applicable coating category;</p> <p>6.2.1.4 Whether the product is marketed for interior or exterior use or both;</p> <p>6.2.1.5 The number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</p> <p>6.2.1.6 The VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less</p>	<p><b>All the reporting requirements were removed except the sales data requirements presented in 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings in order to make the amended rule consistent with SCM. Therefore, non-SIP version of rule is as stringent as SIP version.</b></p>



Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p> <p>6.2.4.2 the product category listed in the Table of Standards 1 or the Table of Standards 2 to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate state sales.</p> <p>6.2.7 Effective on and after January 1, 2011, Sales Data: All sales data listed in Sections 6.2.7.1 to 6.2.7.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of the ARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17, California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections</p>	<p>than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</p> <p>6.2.1.7 The names and CAS numbers of the VOC constituents in the product;</p> <p>6.2.1.8 The names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</p> <p>6.2.1.9 Whether the product is marketed as solvent-borne, waterborne, or 100% solids;</p> <p>6.2.1.10 Description of resin or binder in the product;</p> <p>6.2.1.11 Whether the coating is a single-component or multi-component product;</p> <p>6.2.1.12 The density of the product in pounds per gallon;</p> <p>6.2.1.13 The percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</p> <p>6.2.1.14 The percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>6.2.7.1 through 6.2.7.14:</p> <p>6.2.7.1 the name and mailing address of the manufacturer;</p> <p>6.2.7.2 the name, address and telephone number of a contact person;</p> <p>6.2.7.3 the name of the coating product as it appears on the label and the applicable coating category;</p> <p>6.2.7.4 whether the product is marketed for interior or exterior use or both;</p> <p>6.2.7.5 the number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</p> <p>6.2.7.6 the VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</p> <p>6.2.7.7 the names and CAS numbers of the VOC constituents in the product;</p> <p>6.2.7.8 the names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</p> <p>6.2.7.9 whether the product is marketed as solvent-borne, waterborne, or 100% solids;</p> <p>6.2.7.10 description of resin or binder in the product;</p> <p>6.2.7.11 whether the coating is a single-component or multi-component product;</p> <p>6.2.7.12 the density of the product in pounds per gallon;</p> <p>6.2.7.13 the percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</p> <p>6.2.7.14 the percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.</p>		
	<p>6.3 Test Methods</p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods</p>	<p>6.3 Test Methods</p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test</p>	<p><b>Numerous definitions were added, deleted or modified in order to make the amended rule</b></p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>may be used provided the test methods have been approved by the APCO and EPA.</p> <p>6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in the Table of Standards 1 or the Table of Standards 2, the VOC content of a coating shall be determined as defined in Section 3.77, 3.78, or 3.79 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.3.2 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.77 and 3.79, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.16. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1993), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable. To determine the VOC content of a coating, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.3, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.3. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct an EPA Method 24 analysis.</p> <p>6.3.3 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes</p>	<p>methods may be used provided the test methods have been approved by the APCO and EPA.</p> <p>6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in Table 1 or the 2, the VOC content of a coating shall be determined as defined in Section 3.71, 3.72, or 3.73 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.3.2 VOC Content of Coatings: To VOC Content of Coatings or Colorants: To determine the physical properties of a coating or colorant in order to perform the calculations in Section 3.71 and 3.73, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.15. An alternative method to determine the VOC content of coatings or colorants is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1996), BAAQMD Method 43 (Revised 2005), or BAAQMD Method 41 (Revised 2005), as applicable. To determine the VOC content of a coating or colorant, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.4, formulation data, or any other reasonable means for predicting that the coating or colorant has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.4. The District Air Pollution Control Officer (APCO) may require</p>	<p>consistent with definitions and rule requirements presented in 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>of determining compliance with Section 6.3.2 4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</p> <p>6.3.4 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.5 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM E84-07, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3.0, Fire-Retardant Coating).</p> <p>6.3.6 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-07, "Standard Test Methods for Fire Tests of Building Construction Materials" (see Section 3.0, Fire-Resistive Coating).</p> <p>6.3.7 Gloss Determination: The gloss of a coating shall be determined by ASTM D523-89 (1999), "Standard Test Method for Specular Gloss" (see Section 3.0, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.8 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).</p> <p>6.3.9 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM D1613-06, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products" (see Section 3.0, Pre-Treatment Wash Primer).</p> <p>6.3.10 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM D1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3.0, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95. (Category</p>	<p>the manufacturer to conduct an EPA Method 24 analysis.</p> <p>6.3.3 To determine the VOC content of a coating or colorant with a VOC content of 150 g/l or less, the manufacturer may use SCAQMD Method 313, incorporated by reference in subsection 6.3.34, ASTM D6886-18, incorporated by reference in subsection 6.3.35, or any other reasonable means for predicting that the coating or colorant has been formulated as intended (e.g., quality assurance checks, record keeping).</p> <p>6.3.4 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.2 4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</p> <p>6.3.5 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.6 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM E84-18B, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3.0, Fire-Retardant Coating).</p> <p>6.3.7 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-18ce1, "Standard Test Methods for Fire Tests of Building Construction Materials" (see Section 3.0, Fire-Resistive Coating).</p> <p>6.3.8 Gloss Determination: The gloss of a coating shall be determined by ASTM D523-14 (2018), "Standard Test Method for Specular Gloss" (see Section 3.0, Flat Coating and Nonflat Coating).</p> <p>6.3.9 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).</p> <p>6.3.10 Acid Content of Coatings: The acid content of a coating shall be</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>deleted effective January 1, 2011.)</p> <p>6.3.11 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films"(see Section 3, Specialty Primer, Sealer and Undercoater). (Category deleted effective January 1, 2011.)</p> <p>6.3.12 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 11/6/96 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.13 Exempt Compounds—Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.14 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1993), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 <i>Code of Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.2).</p> <p>6.3.16 Alternative VOC Content of Coatings: <i>The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," SCAQMD Laboratory Methods of Analysis for Enforcement Samples.</i></p> <p>6.3.17 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be</p>	<p>determined by ASTM D1613-17, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products" (see Section 3.0, Pre-Treatment Wash Primer).</p> <p>6.3.11 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, revised 2006 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.12 Exempt Compounds—Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, revised 2006 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.13 Exempt Compounds: The content of compounds exempted under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1996), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.14 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 <i>Code of Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.2).</p> <p>6.3.15 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples.</i></p> <p>6.3.16 Methacrylate Traffic Marking Coatings: The VOC content of</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998).</p> <p>6.3.18 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-04, "Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry".</p> <p>6.3.19 Tub and Tile Refinish Coating Adhesion: The adhesion of tub and tile coating shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-02, "Standard Test Methods for Measuring Adhesion by Tape Test".</p> <p>6.3.20 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05, "Standard Test Method for Film Hardness by Pencil Test".</p> <p>6.3.21 Tub and Tile Refinish Coating Abrasion Resistance: Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-07, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser".</p> <p>6.3.22 Tub and Tile Refinish Coating Water Resistance: Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02e1, "Standard Test Method for Evaluating Degree of Blistering of Paints".</p> <p>6.3.23 Waterproofing Membrane: Waterproofing membrane shall be tested by ASTM C836-06, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course".</p> <p>6.3.24 Mold and Mildew Growth for Basement Specialty Coatings: Mold and mildew growth resistance for basement specialty coatings shall be determined by ASTM D3273-00, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber" and ASTM D3274-95, "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation".</p>	<p>methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998).</p> <p>6.3.17 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-17, "Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry".</p> <p>6.3.18 Tub and Tile Refinish Coating Adhesion: The adhesion of tub and tile coating shall be determined by ASTM D4585/4585M-18, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-17, "Standard Test Methods for Measuring Adhesion by Tape Test".</p> <p>6.3.19 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05 (2011)e2, "Standard Test Method for Film Hardness by Pencil Test".</p> <p>6.3.20 Tub and Tile Refinish Coating Abrasion Resistance: Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-14, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser".</p> <p>6.3.21 Tub and Tile Refinish Coating Water Resistance: Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585/4585M-18, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02 (2017), "Standard Test Method for Evaluating Degree of Blistering of Paints".</p> <p>6.3.22 Waterproofing Membrane: Waterproofing membrane shall be ASTM C836/836M-18, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course".</p> <p>6.3.23 Mold and Mildew Growth for Basement Specialty Coatings: Mold and mildew growth resistance for basement specialty coatings shall be determined by ASTM D3273-16, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>6.3.25 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units".</p> <p>6.3.26 Reactive Penetrating Sealer Water Vapor Transmission: Reactive penetrating sealer water vapor transmission shall be analyzed ASTM E96/E96M-05, "Standard Test Method for Water Vapor Transmission of Materials".</p> <p>6.3.27 Reactive Penetrating Sealer - Chloride Screening Applications: Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures".</p> <p>6.3.28 Stone Consolidants: Stone consolidants shall be tested using ASTM E2167-01, "Standard Guide for Selection and Use of Stone Consolidants".</p>	<p>Environmental Chamber" and ASTM D3274-09 (2017), "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Fungal or Algal Growth or Soil and Dirt Accumulation". 6.3.25 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units".</p> <p>6.3.24 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67/C67M-18, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97/97M-18, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-140M-18a, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units"</p> <p>6.3.25 Reactive Penetrating Sealer Water Vapor Transmission: Reactive penetrating sealer water vapor transmission shall be analyzed ASTM E96/E96M-16, "Standard Test Method for Water Vapor Transmission of Materials" or ASTM D6490-99 (2014), "Standard Test Method for Water Vapor Transmission of Nonfilm Forming Treatments Used on Cementitious Panels".</p> <p>6.3.26 Reactive Penetrating Sealer - Chloride Screening Applications: Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures".</p> <p>6.3.27 Stone Consolidants: Stone consolidants shall be tested using ASTM E2167-01 (2008), "Standard Guide for Selection and Use of Stone Consolidants".</p> <p>6.3.28 Building Envelope Coating Air Permeance of Building Materials: ASTM E2178-13, "Standard Test Method for Air Permeance of Building Materials".</p> <p>6.3.29 Building Envelope Coating Water Penetration Testing: ASTM E331-00 (2016), "Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
		Pressure Difference". 6.3.30 Building Envelope Coating Water Vapor Transmission: ASTM E96/96M-16, "Standard Test Methods for Water Vapor Transmission of Materials". 6.3.31 Tile and Stone Sealers Absorption: ASTM C373-18, "Standard Test Methods for Determination of Water Absorption and Associated Properties by Vacuum Method for Pressed Ceramic Tile and Glass Tiles and Boil Method for Extruded Ceramic Tiles and Non-tile Fired Ceramic Whiteware Products"; or ASTM C97/97M-18, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C642-13, "Standard Test Method for Density, Absorption, and Voids in Hardened Concrete". 6.3.32 Tile and Stone Sealers – Static Coefficient of Friction: ANSI A137.1 (2012), "American National Standard of Specifications for Ceramic Tile". 6.3.33 Tile and Stone Sealers Water Vapor Transmissions: ASTM E96/96M-16, "Standard Test Methods for Water Vapor Transmission of Materials". 6.3.34 VOC Content of Coatings: South Coast AQMD Method 313, "Determination of Volatile Organic Compounds (VOC) by Gas Chromatography/Mass Spectrometry/Flame Ionization Detection (GS/MS/FID)". 6.3.35 VOC Content of Coatings: ASTM D6886-18, "Standard Test Method for Determination of the Weight Percent Individual Volatile Organic Compounds in Waterborne Air-Dry Coatings by Gas Chromatography".	
<b>7.0 Compliance Schedule</b>	Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.	Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.	<b>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</b>

District Rule 4601 was amended (4/16/20). As analyzed, each amended section of the non-SIP version of the rule is at least as stringent as, or more stringent than the corresponding section of the SIP version of the rule. Therefore, it is concluded that overall the non-SIP version of the rule is more stringent than the SIP version of the rule.

Here is the link to 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings:

[https://ww2.arb.ca.gov/sites/default/files/2020-07/2020SCM\\_final.pdf](https://ww2.arb.ca.gov/sites/default/files/2020-07/2020SCM_final.pdf)



**Table 1 VOC Content Limits for Coatings**

<b>COATING CATEGORY</b>	<b>Current Rule 4601 VOC Limit (g/l) Effective on and after 1/1/2012</b>	<b>Amended Rule 4601 VOC Limit (g/l) Effective on and after 1/1/2022</b>
<b>Flat Coatings</b>	50	50
<b>Nonflat Coatings</b>	100	50
<b>Specialty Coatings -</b>		
Aluminum Roof Coatings	400	100
Basement Specialty Coatings	400	400
Bituminous Roof Coatings	50	50
Bituminous Roof Primers	350	350
Bond Breakers	350	350
Building Envelope Coatings	-	50
Concrete Curing Compounds	350	350
Concrete/Masonry Sealers	100	100
Driveway Sealers	50	50
Dry Fog Coatings	150	50
Faux Finishing Coatings	350	350
Fire Resistive Coatings	350	150
Floor Coatings	100	50
Form-Release Compounds	250	100
Graphic Arts Coatings (Sign Paints)	500	500
High Temperature Coatings	420	420
Industrial Maintenance Coatings	250	250
Low Solids Coatings <sup>12</sup>	120 <sup>1</sup>	120 <sup>1</sup>
Magnesite Cement Coatings	450	450
Mastic Texture Coatings	100	100
Metallic Pigmented Coatings	500	500
Multi-Color Coatings	250	250
Pre-Treatment Wash Primers	420	420
Primers, Sealers, and Undercoaters	100	100
Reactive Penetrating Sealers	350	350
Recycled Coatings	250	250
Roof Coatings	50	50
Rust Preventative Coatings	250	250
Shellacs:		
Clear	730	730
Opaque	550	550
Specialty Primers, Sealers, and Undercoaters	100	100
Stains	250	100
Interior Stains	250	
Stone Consolidants	450	450
Swimming Pool Coatings	340	340
Tile and Stone Sealers	100	
Traffic Marking Coatings	100	100
Tub and Tile Refinish Coatings	420	420
Waterproofing Membranes	250	100
Wood Coatings	275	275
Wood Preservatives	350	350
Zinc-Rich Primers	340	340

**Table 2 VOC Content Limits for Colorants**

<b>Colorants Added To</b>	<b>VOC Limit (g/l) Effective on and after 1/1/2022</b>
Architectural Coatings, excluding Industrial Maintenance Coatings	50
Solvent Based Industrial Maintenance Coatings	600
Waterborne Industrial Maintenance Coatings	50
Wood Coatings	600