

August 16, 2023

Mr. Keith Pronske
CES Delano BECCS Plant
PO Box 550
Delano, CA 93216

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: S-75
Project Number: S-1220286

Dear Mr. Pronske:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for CES Delano BECCS Plant at 31500 Pond Rd, Delano, California.

The notice of preliminary decision for this project has been posted on the District's website (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: Gerardo Rios, EPA (w/enclosure) via EPS

Samir Sheikh
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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation
CES Delano BECCS Plant
S-75**

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TITLE V PERMIT RENEWAL EVALUATION

Biomass Power Generation

Engineer: Christian Bisher
Date: August 16, 2023

Facility Number: S-75
Facility Name: CES Delano BECCS Plant
Mailing Address: PO Box 550
Delano, CA 93216

Contact Name: Keith Pronske
Phone: (916) 638-7967

Responsible Official: Keith Pronske
Title: President & CEO

Project # : S-1220286
Deemed Complete: March 18, 2022

I. PROPOSAL

CES Delano BECCS Plant was issued a Title V permit on January 25, 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 last Title V permit.

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to ensure 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

S-75 is located at 31500 Pond Rd in Delano, 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 does not propose to use any model general permit templates.

V. SCOPE OF EPA AND PUBLIC REVIEW

The applicant is not requesting any model general permit templates. Therefore, all federally enforceable conditions in this current Title V permit will be subject to EPA and public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated or Evaluated

- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended August 15, 2019)
- District Rule 2520, Federally Mandated Operating Permits, (amended August 15, 2019)
- District Rule 4352, Solid Fuel Fired Boilers, Steam Generators, and Process Heaters (amended December 16, 2021)
- District Rule 4601, Architectural Coatings (amended April 16, 2020 – SIP approved on December 14, 2022)
- District Rule 4702, Internal Combustion Engines (amended August 19, 2021)
- 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (amended October 6, 2022)
- 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Combustion Engines (amended January 24, 2023)

- 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended March 29, 2023)
- 40 CFR Part 64, Compliance Assurance Monitoring (amended October 22, 1997)
- 40 CFR Part 68, Chemical Accident Prevention Provisions (amended December 19, 2019)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended March 24, 2021)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction (amended April 10, 2020)

B. Rules Added

- None

C. Rules Not Updated

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1160, Emission Statements (amended November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2020, Exemptions (amended December 18, 2014)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications, Section 7.0 (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2410, Prevention of Significant Deterioration (amended June 16, 2011)

- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter – Emission Rate (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)
- District Rule 8011, Fugitive Dust General Requirements (amended August 19, 2004)
- District Rule 8021, Construction, Demolition Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- Kern County Rule 407, Sulfur Compounds
- 40 CFR Part 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (amended February 27, 2014)
- 40 CFR Part 61, Subpart M, National Emission Standards for Asbestos (amended July 20, 2004)

D. Rules Removed

- Fresno County Rule 110, Equipment Breakdown (SIP approved 8/22/1977
⇒ District resolution to rescind from SIP 2/17/2022)
- Kern County Rule 111, Equipment Breakdown (SIP approved 10/24/1980
⇒ District resolution to rescind from SIP 2/17/2022)

- Kings County Rule 111, Equipment Breakdown (SIP approved, last amended 6/18/1982 ⇒ District resolution to rescind from SIP 2/17/2022)
- Madera County Rule 113, Equipment Breakdown (SIP approved 11/18/1983 ⇒ District resolution to rescind from SIP 2/17/2022)
- Stanislaus County Rule 110, Equipment Breakdown (SIP approved 6/1/1983 ⇒ District resolution to rescind from SIP 2/17/2022)
- Tulare County Rule 111, Equipment Breakdown (SIP approved 8/22/1977 ⇒ District resolution to rescind from SIP 2/17/2022)
- District Rule 4306, Boilers, Steam Generators, and Process Heaters – Phase 3 (amended December 17, 2020)

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 Not Updated

- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 4001, New Source Performance Standards (amended April 14, 1999)
- District Rule 4102, Nuisance (amended December 17, 1992)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)

- District Rule 7012, Hexavalent Chromium – Cooling Towers (amended December 17, 1992)
- Kern County Rule 401, Visible Emissions (amended November 29, 1993)
- Kern County Rule 404, Particulate Matter Concentration
- Title 17 CCR, Section 93115, Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines (effective May 19, 2011)

B. Rules Added

- None

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. Rules that have not been updated but are being evaluated for compliance purposes will also be addressed in this section.

A. Fresno County Rule 110, Kern County Rule 111, Kings County Rule 111, Madera County Rule 113, Stanislaus County Rule 110, and Tulare County Rule 111 – Equipment Breakdown

In accordance with EPA's State Implementation Plan (SIP) Call, on February 17, 2022, the District rescinded Fresno County Rule 110, Kern County Rule 111, Kings County Rule 111, Madera County Rule 113, Stanislaus County Rule 110, and Tulare County Rule 111 from the San Joaquin Valley SIP.

Therefore, proposed conditions 1 and 2 on permit S-75-0-4 are no longer Federally Enforceable.

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

District Rule 2201 has been amended since this 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.

C. District Rule 2520 – Federally Mandated Operating Permits

District Rule 2520 has been amended since this facility's last Title V permit renewal. However, 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 this 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, there will be no further discussion of GHG in this evaluation.

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

Per Rule 4306, Section 4.1.1, solid fuel fired units are exempt from this rule. Therefore, the following conditions on the current permits will not be carried over to the permits in this project:

Permit	Conditions	Applicability
S-75-6-33	7	District Rule 4306
S-75-11-29	7	

E. District Rule 4352 – Solid Fuel Fired Boilers

The requirements of District Rule 4352 as amended December 15, 2011 were incorporated into the SIP on November 6, 2012. District Rule 4352 was subsequently amended on December 16, 2021; however, those amendments have not been included in the SIP. Therefore, the December 15, 2011 version of the rule is applicable here. Since this version of the rule has not been updated since the previous Title V renewal, nothing further is required during this evaluation.

Permit	Conditions	Applicability
S-75-6-35	1, 33, 40, 42, 44, 48, 49, 80, 81, and 82	District Rule 4352
S-75-11-31	1, 31, 38, 40, 42, 46, 47, 81, 82, and 83	

F. District Rule 4601 – Architectural Coatings

District Rule 4601 was last amended on April 16, 2020. EPA approved District Rule 4601 as amended on April 16, 2020 for inclusion in the SIP on December 14, 2022.

The purpose of this rule is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements. 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 San Joaquin Valley Air Pollution Control District.

As required by a September 2016 decision by the U.S. Court of Appeals for the Ninth Circuit in *Bahr v. U.S. Environmental Protection Agency*,¹ the April 16, 2020 amendments to District Rule 4601 added a contingency measure for the District's 2016 Ozone Plan that would remove the exemption for specific categories of coatings sold in small containers with a volume of one liter or less if EPA issues a finding that the San Joaquin Valley Air Basin has failed to attain, or to make reasonable further progress towards attainment of, the 2008 National Ambient Air Quality Standard (NAAQS) for ozone. The April 16, 2020 amendments to District Rule 4601 implemented provisions of the 2019 California Air Resources Board (ARB) Suggested Control Measure for Architectural Coatings,² including lowering VOC limits for several categories of architectural coatings, setting VOC limits for three new categories of architectural coatings, and adding new requirements for colorants.

The primary effect of the April 16, 2020 amendments to District Rule 4601 was reducing VOC content limits required for specific categories of coatings and adding VOC content limits for specific categories of colorants. The previous VOC content limits of District Rule 4601 and the VOC content limits of coatings and colorants that became effective on and after January 1, 2022 are summarized below.

¹ United States Court of Appeals for the Ninth Circuit (September 12, 2016) *Bahr v. U.S. Environmental Protection Agency*. <https://cdn.ca9.uscourts.gov/datastore/opinions/2016/09/12/14-72327.pdf>

² California Air Resources Board (May 2019) California Air Resources Board (CARB) Suggested Control Measure for Architectural Coatings. https://ww2.arb.ca.gov/sites/default/files/2020-05/10602_scm_final.pdf

Section 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.

Rule 4601, Table 1 - VOC Content Limits for Coatings¹		
COATING CATEGORY	Previous VOC Limit (g/l)	VOC Limit (g/l) Effective on and after 1/1/2022
Flat Coatings	50	50
Nonflat Coatings	100	50
Specialty Coatings	-	-
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 ²	120	120
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

Rule 4601, Table 1 - VOC Content Limits for Coatings¹		
COATING CATEGORY	Previous VOC Limit (g/l)	VOC Limit (g/l) Effective on and after 1/1/2022
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

1 Limits are expressed as VOC Regulatory (except where noted otherwise), thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.

2 Units are grams of VOC per liter of coating, including water and exempt compounds, in accordance with Section 3.72.

Rule 4601, Table 2 VOC Content Limits for Colorants¹	
Colorants Added To	VOC Limit (g/l) Effective on and after 1/1/2022
Architectural Coatings, excluding Industrial Maintenance Coatings	50
Solvent Based Industrial Maintenance Coatings	600
Waterborne Industrial Maintenance Coatings	50
Wood Coatings	600

1 Limits are expressed as VOC Regulatory.

The following conditions of the proposed requirements of the facility-wide permit (S-75-0-4) were updated to remain consistent with the current rule and to ensure compliance with this rule.

23. *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 of District Rule 4601 (4/16/20), after the specified*

effective dates in Table 1 or Table 2 of District Rule 4601. [District Rule 4601, 5.1]

- 24. All architectural coating containers and containers of any VOC-containing materials subject to District Rule 4601 (4/16/20) shall be closed when not in use. [District Rule 4601, 5.4]*
- 25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in District Rule 4601, sections 6.1 and 6.3 (4/16/20). [District Rule 4601, 6.1 and 6.3]*

G. District Rule 4702 – Internal Combustion Engines

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

The following permit is for an internal combustion engine for which this subpart applies:

S-75-16-4: 244 BHP (INTERMITTENT) CUMMINS MODEL 6BTA 5.9 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

S-75-17-4: 830 BHP (INTERMITTENT) DETROIT MODEL 8123 7405 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

S-75-18-4: 1,106 BHP (INTERMITTENT) CATERPILLAR MODEL 7C1299 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

The requirements of District Rule 4702 as amended November 14, 2013 were incorporated into the SIP on April 25, 2016. District Rule 4702 was subsequently amended on August 19, 2021; however, those amendments have not been included in the SIP. Therefore, the November 14, 2013 version of the rule is applicable here. Since this version of the rule was evaluated in the previous Title V renewal, nothing further is required during this evaluation.

Permit	Conditions	Applicability
S-75-16-4	3, 6, 7, 8, 9, and 18	District Rule 4702
S-75-17-4	1, 4, 7, 8, 9, 10, 11, and 20	
S-75-18-4	1, 4, 7, 8, 9, 10, 11, and 20	

H. 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

This subpart establishes national emission limitations and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and work practice standards.

This subpart has been updated since the last Title V renewal and applies to permit units S-75-6 and '-11. These units are dormant emission units (DEUs) and require an Authority to Construct (ATC) prior to operating. Therefore, compliance with this subpart will be determined at that time with any changes being added to the Title V permit in the subsequent Administrative Amendment or Minor Modification. The following conditions will ensure continued compliance:

Permit	Conditions	Applicability
S-75-6-35	1 and 93 – 108	Federal Regulation 40 CFR Part 63, Subpart DDDDDD
S-75-11-31	1 and 94 – 109	

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

The purpose of 40 CFR Part 60, Subpart IIII is to establish New Source Performance Standards (NSPS) to reduce emissions of NO_x, SO_x, PM, CO, and VOC from new stationary compression ignition (CI) internal combustion engines (ICE).

Section 60.4200(a)(2) states that the provisions of this subpart are applicable to owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

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

None of the CI IC engines at this facility have been install or modified after July 11, 2005. Therefore, this subpart is not applicable, and no further discuss is required.

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

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

The amendments to this subpart have no effect on current permit requirements and will therefore not be addressed further in this evaluation. Continued compliance with the requirements of this regulation will be ensured with the following permit conditions:

Permit	Conditions	Applicability
S-75-16-4	3, 6, 8-16, and 18	40 CFR Part 63, Subpart ZZZZ
S-75-17-4	1, 4, 7, 11-18, and 20	
S-75-18-4	1, 4, 7, 11-18, and 20	

K. 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 _x	20,000
SO _x	140,000
PM ₁₀	140,000
CO	200,000
VOC	20,000

- a) S-75-1-15: FUEL RECEIVING, SCREENING & CONVEYING OPERATION #1 INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 175 TON/HR FUEL TRANSFER CONVEYOR #1 WITH BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-1 TO DS-1, BC-9 TO BC-2, HOG-1 TO BC-2; STATION #2 SERVES POINTS BC-3 & BC-5), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #1, AND 3 FABRIC COLLECTORS

Permit unit '-1 has PM₁₀ emission limits and add-on control devices in the form of three baghouses (BH2, BH3, and BH4). Therefore, the pre-control potential to emit (PE) must be calculated.

This operation has the following emission limits on its permit. The PM₁₀ emission limit for wind erosion on the storage piles is not be included since it does not have a control device.

PM₁₀ Emission Factors:

PM_{10, BH2} = 0.0045 gr/scf (current PTO)

PM_{10, BH3} = 0.004 gr/scf (current PTO)

PM_{10, BH4} = 0.004 gr/scf (current PTO)

This operation has the following add-on controls: 1) Baghouse #2 (BH2) controls truck dump area #1, 2) Baghouse #3 (BH3) controls the radial stacker and reclaimer, and 3) Baghouse #4 (BH4) controls the primary screen and hog #1.

Pre-control Potential to Emit (PE) Calculations:

Assumptions:

Flowrate_{BH2} = 40,000 cfm (current PTO)

Flowrate_{BH3} = 20,000 cfm (current PTO)

Flowrate_{BH4} = 30,000 cfm (current PTO)

Control Efficiency = 99% (project S-1064787)

PE_{Controlled} = PM₁₀ Concentration x Operating Time x Exhaust Flowrate

PE_{Controlled} = PE_{Pre-controlled} x (1 – Control Efficiency)

PE_{Pre-controlled} = PE_{Controlled} ÷ (1 – Control Efficiency)

$$PE_{Pre-controlled} = \frac{PM_{10} \text{ Conc} \times \text{Operating Time} \times \text{Exhaust Flowrate}}{(1 - CE)}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH2}} &= (0.0045 \text{ gr/scf} \times 525,600 \text{ min/year} \times 40,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 1,351,543 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH3}} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 20,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 600,686 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH4}} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 30,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 901,029 \text{ lb/year} \end{aligned}$$

Since the pre-controlled potential to emit is greater than the major source threshold of 140,000 lb/year for PM₁₀, CAM is required for any baghouse in this operation.

Annual post-control potential to emit for this permit unit will be checked to see if major source thresholds are exceeded, which would require monitoring data to be collected every 15 minutes.

$$PE_{\text{Controlled}} = PM_{10} \text{ Concentration} \times \text{Operating Time} \times \text{Exhaust Flowrate}$$

$$\begin{aligned} PE_{\text{Controlled, BH2}} &= 0.0045 \text{ gr/scf} \times 525,600 \text{ min/year} \times 40,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr} \\ &= 13,515 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Controlled, BH3}} &= 0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 20,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr} \\ &= 6,007 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Controlled, BH4}} &= 0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 30,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr} \\ &= 9,010 \text{ lb/year} \end{aligned}$$

Monitoring every 15 minutes is not required for this permit unit since the PM₁₀ major source threshold is not surpassed for any baghouse in this operation.

CAM for PM₁₀ is satisfied by the monitoring of a differential pressure gauge on each baghouse and recorded daily. Continued compliance with the requirements of this regulation will be ensured with the following permit conditions:

Permit Unit	Conditions	Applicability
S-75-1-15	28, 29, 54, and 58-61	Federal Regulation 40 CFR Part 64

- b) S-75-3-10: 4,400 GALLON LIMESTONE STORAGE SILO (UNIT #1), WITH VAPOR SPACE TIED IN COMMON WITH SAND SILO PTO S-75-4, INCLUDING BIN VENT FILTER WITH 95 SQUARE FOOT FILTER AREA, 1 HP EXHAUST FAN, 1/4 HP BAG SHAKER MOTOR, AND PRODUCT CONVEYING BLOWER

S-75-4-10: 65,828 GALLON SAND STORAGE (UNIT # 1) SILO, WITH VAPOR SPACE TIED COMMON WITH LIMESTONE SILO PTO S-75-3, INCLUDING BIN VENT FILTER WITH 120 SQ.FT. FILTER AREA, 1 HP EXHAUST FAN AND 1/4 HP BAG SHAKER MOTOR

Permit units '-3 and '-4 have PM₁₀ emission limits and add-on control devices in the form of bin vent filters on the limestone storage silo (S-75-3) and the sand storage silo (S-75-4). Therefore, the pre-control PE must be calculated.

These operations have the following emission limits on their permits:

PM₁₀ Emission Factors:

PM₁₀, Unit 3 = 0.024 lb/ton (current PTO)

PM₁₀, Unit 4 = 0.024 lb/ton (current PTO)

Pre-controlled Potential to Emit (PE) Calculations:

Assumptions:

Throughput_{Unit 3} = 25 ton/day (current PTO)

Throughput_{Unit 4} = 25 ton/day (current PTO)

Control Efficiency = 99% (project S-1071550)

$$PE_{\text{Controlled}} = EF_{PM10} \times \text{Throughput} \times \text{Operating Time}$$

$$PE_{\text{Controlled}} = PE_{\text{Pre-controlled}} \times (1 - \text{Control Efficiency})$$

$$PE_{\text{Pre-controlled}} = PE_{\text{Controlled}} \div (1 - \text{Control Efficiency})$$

$$PE_{\text{Pre-controlled}} = \frac{EF_{PM10} \times \text{Throughput} \times \text{Operating Time}}{(1 - CE)}$$

Unit 3

$$\begin{aligned} PE_{\text{Pre-controlled}} &= (0.024 \text{ lb/ton} \times 25 \text{ ton/day} \times 365 \text{ day/year}) / (1 - 0.99) \\ &= 21,900 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Unit 4

$$\begin{aligned} PE_{\text{Pre-controlled}} &= (0.024 \text{ lb/ton} \times 25 \text{ ton/day} \times 365 \text{ day/year}) / (1 - 0.99) \\ &= 21,900 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Since the pre-control potential to emit is less than the major source threshold of 140,000 lb-PM₁₀/year for both permit units, CAM is not triggered for either permit unit in this operation.

- c) S-75-5-14: FUEL RECLAMATION, CONVEYING AND SCREENING OPERATION INCLUDING 45 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER WITH WATER SPRAY SYSTEM, RECLAIMER FEED TABLE, RECLAIMER CONVEYOR #6, AND AUXILIARY FUEL RECLAIM HOPPER (PHASE I) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-9 TO BC-2, BC-10, DS-2 TO BC-8; STATION #2 SERVES TRANSFER POINTS BC-6 TO BC-7, DC-3 TO BC-7), AND 3 FABRIC COLLECTORS

Permit unit '-5 has a PM₁₀ emission limit and add-on control devices in the form of three baghouses (BH1, BH3, BH4). Therefore, the pre-control PE must be calculated.

This operation has the following emission limits on its permit. The fugitive PM₁₀ emission limit from the covered truck loading operation will not be included since it does not have a control device associated with it.

PM₁₀ Emission Factors:

$$PM_{10, BH1a} = 0.004 \text{ gr/scf (current PTO)}$$

$$PM_{10, BH1b} = 0.21 \text{ lb/hr (current PTO)}$$

$$PM_{10, BH3} = 0.004 \text{ gr/scf (current PTO)}$$

$$PM_{10, BH4} = 0.004 \text{ gr/scf (current PTO)}$$

This operation has the following add-on controls: 1) Baghouse #1 (BH1) serves Boiler #1 feed conveyor, 2) Baghouse #3 (BH3) controls the radial stacker and reclaimer, and 3) Baghouse #4 (BH4) controls the primary screen and hog #1.

Pre-control Potential to Emit (PE) Calculations:

Assumptions:

$$\text{Flowrate}_{BH1} = 6,100 \text{ cfm (project S-1064787)}$$

$$\text{Flowrate}_{BH3} = 20,000 \text{ cfm (PTO S-75-1-13)}$$

$$\text{Flowrate}_{BH4} = 30,000 \text{ cfm (PTO S-75-1-13)}$$

Control Efficiency = 99% (project S-1064787)

$PE_{Controlled} = PM_{10} \text{ Concentration} \times \text{Operating Time} \times \text{Exhaust Flowrate}$

$PE_{Controlled} = PE_{Pre-controlled} \times (1 - \text{Control Efficiency})$

$PE_{Pre-controlled} = PE_{Controlled} \div (1 - \text{Control Efficiency})$

$$PE_{Pre-controlled} = \frac{PM_{10} \text{ Conc} \times \text{Operating Time} \times \text{Exhaust Flowrate}}{(1 - CE)}$$

$$\begin{aligned} PE_{Pre-controlled, BH1a} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 6,100 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 183,209 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{Pre-controlled, BH1b} &= (0.21 \text{ lb/hr} \times 8,760 \text{ hr/year} / (1 - 0.99)) \\ &= 183,960 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{Pre-controlled, BH3} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 20,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 600,686 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{Pre-controlled, BH4} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 30,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 901,029 \text{ lb/year} \end{aligned}$$

Since the pre-controlled potential to emit is greater than the major source threshold of 140,000 lb/year for PM₁₀, CAM is required for each baghouse in this operation.

Annual post-control potential to emit for this permit unit will be checked to see if major source thresholds are exceeded, which would require monitoring data to be collected every 15 minutes.

$PE_{Controlled} = PM_{10} \text{ Concentration} \times \text{Operating Time} \times \text{Exhaust Flowrate}$

$$\begin{aligned} PE_{Controlled, BH1a} &= 0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 6,100 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr} \\ &= 1,832 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{Controlled, BH1b} &= 0.21 \text{ lb/hr} \times 8,760 \text{ hr/year} \\ &= 1,840 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Controlled, BH3}} &= 0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 20,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb/7,000 gr} \\ &= 6,007 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Controlled, BH4}} &= 0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 30,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb/7,000 gr} \\ &= 9,010 \text{ lb/year} \end{aligned}$$

Monitoring every 15 minutes is not required for this permit unit since the PM₁₀ major source threshold is not surpassed for any baghouse in this operation.

CAM for PM₁₀ is satisfied by the monitoring of a differential pressure gauge on each baghouse and recorded daily. Continued compliance with the requirements of this regulation will be ensured with the following permit conditions:

Permit Unit	Conditions	Applicability
S-75-5-14	23, 24, 31, and 34-37	Federal Regulation 40 CFR Part 64

- d) S-75-6-35: 400 MMBTU/HR (32 MW) EPI FLUIDIZED BED, BIOMASS-FUELED BOILER (UNIT #1) WITH NH₃, LIMESTONE, SODIUM BICARBONATE, AND SAND INJECTION, WITH BOILER EXHAUST VENTED TO FABRIC FILTER; AND FOUR 10 MMBTU/HR PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS

S-75-11-31: 315 MMBTU/HR EPI FLUIDIZED BUBBLING BED, BIOMASS-FUELED BOILER (UNIT #2) WITH NH₃, LIMESTONE, SAND AND SODIUM BICARBONATE (NAHCO₃) INJECTION, WITH BOILER EXHAUST VENTED TO SIX COMPARTMENT FABRIC FILTER DUST COLLECTOR; AND FOUR 10 MMBTU/HR THERMAL SOLUTIONS INCORPORATED MODEL NO. TSI-10 PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS

Permit units S-75-6-33 and '-11-29 are being designated as non-compliant dormant emission units in this renewal evaluation. Before these units can restart operations, an Authority to Construct (ATC) is required in which the units will have to comply with all District, State, and Federal rules and regulations. CAM applicability and compliance will be address in that ATC project or the following Title V project that incorporates any changes into the facilities Title V permit. The following condition will be added to permit units S-75-6-33 and '-11-29 to ensure continued compliance:

- Operation of the unit is not authorized until modifications are made to comply with District Rules as authorized by an Authority to Construct. [District Rule 2010]
 - {1829} The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520]
- e) S-75-7-8: 44,883 GALLON ASH STORAGE SILO WITH UNLOADING SPOUT, BOTH SERVED BY BIN VENT FILTER WITH 95 SQ.FT FILTER AREA AND 1/2 HP MOTOR - SILO RECEIVING MATERIAL FROM PHASE I AND PHASE II ASH HANDLING CONVEYOR

Permit unit '-7 has PM₁₀ and VOC emission limits and a PM₁₀ add-on control device in the form of a bin vent filter on the ash storage silo. Therefore, the pre-control PE must be calculated for PM₁₀.

Pre-control Potential to Emit (PE) Calculations:

Emission Factors:

PM = 0.01 grains/dscf (current PTO)

Assumptions:

Flowrate = 475 cfm (project S-1071550)

PM = PM₁₀

$PE_{Controlled} = PM_{10} \text{ Concentration} \times \text{Operating Time} \times \text{Exhaust Flowrate}$

$PE_{Controlled} = PE_{Pre-controlled} \times (1 - \text{Control Efficiency})$

$PE_{Pre-controlled} = PE_{Controlled} \div (1 - \text{Control Efficiency})$

$$PE_{Pre-control} = \frac{PM_{10} \text{ Conc} \times \text{Operating Time} \times \text{Exhaust Flowrate}}{(1 - CE)}$$

$$\begin{aligned} PE_{Pre-controlled} &= (0.01 \text{ grains/dscf} \times 525,600 \text{ min/year} \times 475 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 35,666 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Since the pre-control potential to emit is less than the major source threshold of 140,000 lb-PM₁₀/year, CAM is not triggered for this unit.

- f) S-75-9-12: FUEL RECEIVING, SCREENING & CONVEYING OPERATION INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE

ROLLER, AND 100 TON/HR FUEL RECEIVING CONVEYOR #11 W/BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-11 TO DS-3, HOG-2 TO BC-13, BC-12; STATION #3 SERVES POINTS BC-16 & BC-17), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #3, AND AND 3 FABRIC COLLECTORS

Permit unit '9 has PM₁₀ emission limits and add-on control devices in the form of three baghouses (BH5, BH6, BH7). Therefore, the pre-control PE must be calculated.

This operation has the following emission limits on its permit. The fugitive PM₁₀ emission limit from the fuel storage piles will not be included since it does not have a control device associated with it.

PM₁₀ Emission Factors:

PM_{10, BH5a} = 0.004 gr/scf (current PTO)

PM_{10, BH5b} = 1.18 lb/hr (current PTO)

PM_{10, BH6a} = 0.004 gr/scf (current PTO)

PM_{10, BH6b} = 0.67 lb/hr (current PTO)

PM_{10, BH7a} = 0.004 gr/scf (current PTO)

PM_{10, BH7b} = 1.25 lb/hr (current PTO)

This operation has the following add-on controls: 1) Baghouse #5 (BH5) serves truck dump area #2, 2) Baghouse #6 (BH6) controls primary screen and hog #2, and 3) Baghouse #7 (BH7) controls the fixed stacker and radial reclaimer.

Pre-control Potential to Emit (PE) Calculations:

Assumptions:

Flowrate_{BH5} = 34,000 cfm (project S-1030502)

Flowrate_{BH6} = 34,000 cfm (project S-1030502)

Control Efficiency = 99% (project S-1071550)

PE_{Controlled} = PM₁₀ Concentration x Operating Time x Exhaust Flowrate

PE_{Controlled} = PE_{Pre-controlled} x (1 – Control Efficiency)

PE_{Pre-controlled} = PE_{Controlled} ÷ (1 – Control Efficiency)

$$PE_{Pre-controlled} = \frac{PM_{10} \text{ Conc} \times \text{Operating Time} \times \text{Exhaust Flowrate}}{(1 - CE)}$$

$$PE_{\text{Pre-controlled}} = \frac{PM_{10} \text{ EF} \times \text{Operating Time}}{(1 - CE)}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH5a}} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 34,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb/7,000 gr}) / (1 - 0.99) \\ &= 1,021,166 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH5b}} &= (1.18 \text{ lb/hr} \times 8,760 \text{ hr/year} / (1 - 0.99)) \\ &= 1,033,680 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH6a}} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 34,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb/7,000 gr}) / (1 - 0.99) \\ &= 1,021,166 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH6b}} &= (0.67 \text{ lb/hr} \times 8,760 \text{ hr/year} / (1 - 0.99)) \\ &= 586,920 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH7b}} &= (1.25 \text{ lb/hr} \times 8,760 \text{ hr/year} / (1 - 0.99)) \\ &= 1,095,000 \text{ lb/year}^3 \end{aligned}$$

Since the pre-controlled potential to emit is greater than the major source threshold of 140,000 lb/year for PM₁₀, CAM is required for each baghouse in this operation.

Annual post-control potential to emit for this permit unit will be checked to see if major source thresholds are exceeded, which would require monitoring data to be collected every 15 minutes.

$$PE_{\text{Controlled}} = PM_{10} \text{ Concentration} \times \text{Operating Time} \times \text{Exhaust Flowrate}$$

$$\begin{aligned} PE_{\text{Controlled, BH5a}} &= 0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 34,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb/7,000 gr} \\ &= 10,212 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Controlled, BH5b}} &= 1.18 \text{ lb/hr} \times 8,760 \text{ hr/year} \\ &= 10,337 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH6a}} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 34,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb/7,000 gr}) \\ &= 10,212 \text{ lb/year} \end{aligned}$$

³ Since CAM is triggered for baghouse #7 using the PM₁₀ emission rate (lb/hr), it is not necessary to obtain exhaust flowrate information in order to also calculate emissions using exhaust grain loading and flowrate.

$$\begin{aligned} PE_{\text{Pre-controlled, BH6b}} &= (0.67 \text{ lb/hr} \times 8,760 \text{ hr/year}) \\ &= 5,869 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{\text{Pre-controlled, BH7b}} &= (1.25 \text{ lb/hr} \times 8,760 \text{ hr/year}) \\ &= 10,950 \text{ lb/year}^3 \end{aligned}$$

Monitoring every 15 minutes is not required for this permit unit since the PM₁₀ major source threshold is not surpassed for any baghouse in this permit unit.

CAM for PM₁₀ is satisfied by the monitoring of a differential pressure gauge on each baghouse and recorded daily. Continued compliance with the requirements of this regulation will be ensured with the following permit conditions:

Permit Unit	Conditions	Applicability
S-75-9-12	29, 30, 53, and 57-60	Federal Regulation 40 CFR Part 64

- g) S-75-10-14: FUEL RECLAMATION, CONVEYING & SCREENING OPERATION INCLUDING 35 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER #DC-4 WITH WATER SPRAY SYSTEM AND BOOMING AND SLEWING SYSTEM (SHARED WITH S-75-9) (PHASE II) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS DS-4 ABORT CHUTE, DS-4 TO BC-21; STATION #3 SERVES TRANSFER POINTS BC-18 TO BC-20, BC-19 TO BC-20), AND 2 FABRIC COLLECTORS

Permit unit '-10 has PM₁₀ emission limits and add-on control devices in the form of two baghouses (BH9 and BH11). Therefore, the pre-control PE must be calculated.

This operation has the following emission limits on its permit. The fugitive PM₁₀ emission limit from the fuel storage piles will not be included since it does not have a control device associated with it.

PM₁₀ Emission Factors:

PM₁₀, BH9 = 0.004 gr/scf (current PTO)

PM₁₀, BH11 = 0.0036 (current PTO)

This operation has the following add-on controls: 1) Baghouse #9 (BH9) serves the secondary scalping screen and 2) Baghouse #11 (BH11) controls the boiler area.

Pre-control Potential to Emit (PE) Calculations:

Assumptions:

Flowrate_{BH5} = 20,000 cfm (current PTO)

Flowrate_{BH6} = 11,750 cfm (current PTO)

Control Efficiency = 99% (project S-1071550)

PE_{Controlled} = PM₁₀ Concentration x Operating Time x Exhaust Flowrate

$$PE_{Controlled} = PE_{Pre-controlled} \times (1 - \text{Control Efficiency})$$

$$PE_{Pre-controlled} = PE_{Controlled} \div (1 - \text{Control Efficiency})$$

$$PE_{Pre-controlled} = \frac{PM_{10} \text{ Conc} \times \text{Operating Time} \times \text{Exhaust Flowrate}}{(1 - CE)}$$

$$PE_{Pre-controlled} = \frac{PM_{10} \text{ EF} \times \text{Operating Time}}{(1 - CE)}$$

$$\begin{aligned} PE_{Pre-controlled, BH9} &= (0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 20,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 600,686 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{Pre-controlled, BH11} &= (0.0036 \text{ gr/scf} \times 525,600 \text{ min/year} \times 11,750 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr}) / (1 - 0.99) \\ &= 317,613 \text{ lb/year} \end{aligned}$$

Since the pre-controlled potential to emit is greater than the major source threshold of 140,000 lb/year for PM₁₀, CAM is required for each baghouse in this operation.

Annual post-control potential to emit for this permit unit will be checked to see if major source thresholds are exceeded, which would require monitoring data to be collected every 15 minutes.

$$PE_{Controlled} = PM_{10} \text{ Concentration} \times \text{Operating Time} \times \text{Exhaust Flowrate}$$

$$\begin{aligned} PE_{Controlled, BH9} &= 0.004 \text{ gr/scf} \times 525,600 \text{ min/year} \times 20,000 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr} \\ &= 6,007 \text{ lb/year} \end{aligned}$$

$$\begin{aligned} PE_{Controlled, BH11} &= 0.0036 \text{ gr/scf} \times 525,600 \text{ min/year} \times 11,750 \text{ ft}^3/\text{min} \times \\ &\quad \text{lb}/7,000 \text{ gr} \\ &= 3,176 \text{ lb/year} \end{aligned}$$

Monitoring every 15 minutes is not required for this permit unit since the PM₁₀ major source threshold is not surpassed for either baghouse in this permit unit.

CAM for PM₁₀ is satisfied by the monitoring of a differential pressure gauge on each baghouse and recorded daily. Continued compliance with the requirements of this regulation will be ensured with the following permit conditions:

Permit Unit	Conditions	Applicability
S-75-10-14	29, 30, 41, and 44-47	Federal Regulation 40 CFR Part 64

h) S-75-12-7, '-13-7, '-16-4, '-17-4, '-18-4, '-19-6, '-20-6, and '-21-6:

These permit units do not contain emission limits for any pollutant. Therefore, these units are not subject to CAM.

L. 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners

Per §82.30(a) 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 (as that term is defined in 40 CFR 82.152).

Per §82.30(b) 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.

40 CFR Part 82, Subpart B has been amended since the last Title V permit renewal was issued for this facility. However, compliance with the requirements of this rule will be ensured with the permit conditions on the facility-wide permit listed below:

Permit	Condition	Applicability
S-75-0-4	28	40 CFR Part 82, Subpart B

M. 40 CFR Part 82, Subpart F – Recycling and Emissions Reductions

Per §82.150(a) 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.

Per §82.150(b) 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, manufacturers 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.

40 CFR Part 82, Subpart F has been amended since the last Title V permit renewal was issued for this facility. However, compliance with the requirements of this rule will be ensured with the permit conditions on the facility-wide permit listed below:

Permit	Condition	Applicability
S-75-0-4	27	40 CFR Part 82, Subpart F

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

The applicant is not proposing to use any model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The applicant has not proposed any new permit shields, and no permit shields exist to be carried over onto the renewed Title V permits for non-model template requirements.

C. Obsolete Permit Shields From Existing Permit Requirements

There were no obsolete permit shields listed in the existing permit requirements.

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

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

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

XI. PERMIT CONDITIONS

See Attachment A – Draft Renewed Title V Operating Permits.

ATTACHMENTS

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

ATTACHMENT A

Draft Renewed Title V Operating Permits

San Joaquin Valley Air Pollution Control District

FACILITY: S-75-0-4

EXPIRATION DATE: 08/31/2022

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1]
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]
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
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CES DELANO BECCS PLANT

Location: 31500 POND RD, DELANO, CA 93215

S-75-0-4 : Aug 15 2023 3:50PM - BISHERC

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, 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 of District Rule 4601 (4/16/20), after the specified effective dates in Table 1 or Table 2 of District Rule 4601. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All architectural coating containers and containers of any VOC-containing materials subject to District Rule 4601 (4/16/20) shall be closed 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 District Rule 4601, sections 6.1 and 6.3 (4/16/20). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit

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. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 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
40. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2, or 3 when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit
41. Facility shall comply with California Health and Safety Code Sections 44300 through 44384. [District Rule 4102 and California Health and Safety Code]
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. All roads and roadways used by equipment associated with operation of boiler shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Particulate matter collected by fabric collectors shall be accumulated in closed containers and disposed of in a manner preventing entrainment in atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
45. Each fabric collector exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods pursuant to Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
46. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
47. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] 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.

48. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-75-1-15

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECEIVING, SCREENING & CONVEYING OPERATION #1 INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 175 TON/HR FUEL TRANSFER CONVEYOR #1 WITH BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-1 TO DS-1, BC-9 TO BC-2, HOG-1 TO BC-2; STATION #2 SERVES POINTS BC-3 & BC-5), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #1, AND 3 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, the limestone feed lines to permit units S-75-1-12 and '5-11 shall be physically disconnected. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Operation shall include ventilation system and fabric collector #2, with a minimum of 5,002 sq.ft. filter area and 100 hp exhaust fan, serving truck tippers, fuel receiving hoppers and inlets to the fuel transfer conveyor #1. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fabric collector #2 shall include 5 hp blower motor, rotary valve and auger. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Operation shall include belt type magnetic separator and magnetic separator take away conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Operation shall include disk type scalping screen and swing hammer type hog, both with water dust suppression and both vented to fabric collector #4. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Operation shall include ventilation system and fabric collector #4, with minimum of 3,674 sq. ft. filter area and 60 hp exhaust fan (shared with S-75-5), serving disk type scalping screen, swing hammer type hog, and discharge of fuel transfer conveyor #1. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Fabric collector #4 shall include 3 hp blower motor, rotary valve and auger. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Operation shall include 186 ton/hr capacity hog outfeed conveyor #2 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Operation shall include 186 ton/hr capacity fixed stacker conveyor #3 with operational water dust suppression, two position diverter gate, and telescopic spout with dust pick-up shroud. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Operation shall include 186 ton/hr capacity stacker infeed conveyor #4, and 186 ton/hr capacity radial stacker conveyor #5 with telescopic spout with dust pickup. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Operation shall include ventilation system with fabric collector #3 serving equipment associated with the 186 ton/hour hog, fixed stacker and infeed conveyor listed above (fixed stacker conveyor #3, diverter gate, telescopic spout, stacker infeed conveyor #4, radial stacker conveyor #5 and the head of hog outfeed conveyor #2), with a minimum of 3,263 sq.ft. filter area and 125 hp exhaust fan. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fabric collector #3 shall include 3 hp blower motor, rotary valve and auger. [District Rule 2201] Federally Enforceable Through Title V Permit
18. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper ventilation pickup points. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Truck tipper receiving hopper ventilation hood and hog ventilation hoods shall provide minimum indraft velocity of 200 ft/min during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Truck tipper receiving hopper drag chain conveyor transfer point hood shall provide minimum indraft velocity of 150 ft/min during entire truck unloading and fuel transfer to take away belt conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Truck tipper area ventilation system shall be equipped with interlocks and isolation valves which directs all air flow through operating truck tipper and prevents simultaneous operation of truck tippers. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft of belt width during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Scalping screen ventilation hood(s) shall provide minimum indraft velocity of 50 ft/min during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Truck tipper fabric collector #2 shall have minimum filter area of 5,002 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Scalping screen/hog area ventilation system shall be equipped with isolation valve which prevents air flow from primary screen and hog when this equipment is not in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Scalping screen/hog area fabric collector #4 shall have minimum filter area of 3,674 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Stacker/reclaimer area fabric collector #3 shall have minimum filter area of 3,263 sq. ft. and maximum air-to-cloth ratio of 8.2 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism and operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
29. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] 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.

30. Material removed from the fabric collectors shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Particulate matter collected by fabric collectors shall be stored in closed containers when such material is not actively being returned to the boiler via permitted conveying equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Variable height radial stacker, auxiliary stacker and reclaimers shall be ventilated to fabric collector, and discharge from stacker spouts shall be maintained as close as possible to top of storage pile. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Radial and auxiliary stacker conveyors BC3 and BC5 shall be equipped with water injection nozzles which shall be operated as needed, to ensure dust emissions have visible emissions less than or equal to 20% opacity. [District Rule 2201] Federally Enforceable Through Title V Permit
34. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,200 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Deliveries of fuel shall not exceed 144 truck loads per day. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Drag chain transfer, point hood ventilation system and fabric collector shall operate whenever material is being transferred out of receiving bin. [District Rule 2201] Federally Enforceable Through Title V Permit
37. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Truck tipper receiving hopper, ventilation hood system and fabric collector #2 shall be operated whenever material is being transferred into the hopper. [District Rule 2201] Federally Enforceable Through Title V Permit
39. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and hog enclosures, including inlet and outlet openings. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Scalping screen/hog area fabric collector #4 shall be operated whenever material is being transferred from fuel receiving operations or storage pile to boiler. [District Rule 2201] Federally Enforceable Through Title V Permit
41. Stacker/reclaimer area fabric collector #3 shall be operated whenever material is being transferred to or from storage piles. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Auxiliary stacker shall not operate when radial stacker is in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Fuel transfer conveyor shall be fully enclosed and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Radial stacker telescoping discharge spout height shall be continuously adjusted to minimize material drop distance to pile. [District Rule 2201] Federally Enforceable Through Title V Permit
45. Material to stacker shall contain no more than 3% by weight of fines capable of passing through 200 mesh screen. [District Rule 2201] Federally Enforceable Through Title V Permit
46. Any stored fuel which is burning shall be immediately segregated and extinguished. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
47. Records of types, amounts and origins (including distance from facility, copies of all purchase contracts, # of trucks, etc.) of offset fuels received shall be maintained and made readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
48. Air flow to fabric collector #2 shall not exceed 40,000 cfm and Particulate (PM-10) emissions from fabric filter #2 shall not exceed 0.0045 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

49. Air flow to fabric collectors 3 and 4 shall not exceed 20,000 and 30,000 cfm respectively, and Particulate (PM-10) emissions from fabric collectors shall not exceed 0.004 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Fugitive particulate (PM-10) emissions from fuel storage piles shall not exceed 1.32 lb PM-10/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Wood waste delivery trucks shall remain covered during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
52. Operator shall record the daily number of fuel delivery truck loads. [District Rule 2520] Federally Enforceable Through Title V Permit
53. Operator shall record percentage of fines (passing #200 screen) in the material to the stacker. [District Rule 2520] Federally Enforceable Through Title V Permit
54. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
55. Visible emissions from truck tipper receiving hopper ventilation pickup points, conveyor transfer points, scalping screens, and hog enclosures (including inlet and outlet openings) shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
56. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
57. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
58. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
59. 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
60. 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
61. During each day of operation, the permittee shall record the pressure drop of the fabric filters, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
62. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-3-10

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

4,400 GALLON LIMESTONE STORAGE SILO (UNIT #1), WITH VAPOR SPACE TIED IN COMMON WITH SAND SILO PTO 75-4, INCLUDING BIN VENT FILTER WITH 95 SQUARE FOOT FILTER AREA, 1 HP EXHAUST FAN, 1/4 HP BAG SHAKER MOTOR, AND PRODUCT CONVEYING BLOWER

PERMIT UNIT REQUIREMENTS

1. While dormant, the feed line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent through bin vent filters located on limestone storage silo S-75-3 and sand storage silo S-75-4. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filters located on PTO S-75-3 and S-75-4 shall both be in operation and utilized when silo is being filled. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Limestone bin vent filter shall have a maximum air to cloth ratio of 8.54 ft./min and minimum filter area of 95 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Bin vent filter shall be equipped with mechanical shaker mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Bin vent filter shall be equipped with operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Only crushed limestone shall be handled. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
14. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Silo shall not receive more than 25 tons/day of product and particulate matter (PM10) emissions shall not exceed 0.024 lbs/ton loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Permittee shall keep records of amounts and size of limestone received and make such records readily available for District inspection upon request. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
17. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Permittee shall perform a complete vent filter inspection on an annual basis. Dust collector filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter breakthrough and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
20. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-4-10

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

65,828 GALLON SAND STORAGE (UNIT # 1) SILO, WITH VAPOR SPACE TIED COMMON WITH LIMESTONE SILO PTO S-75-3, INCLUDING BIN VENT FILTER WITH 120 SQ.FT. FILTER AREA, 1 HP EXHAUST FAN AND 1/4 HP BAG SHAKER MOTOR

PERMIT UNIT REQUIREMENTS

1. While dormant, the feed line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent through bin vent filters located on limestone storage silo S-75-3 and sand storage silo S-75-4. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filters located on PTO S-75-3 and S-75-4 shall both be in operation and utilized when silo is being filled. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Sand storage silo bin vent filter shall have a maximum air to cloth ratio of 8 ft./min and minimum filter area of 120 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Bin vent filter shall be equipped with mechanical shaker mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Bin vent filter shall be equipped with operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
13. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Silo shall not receive more than 25 tons/day of product and particulate matter emissions (PM10) shall not exceed 0.024 lbs/ton loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Permittee shall keep records of amounts and size of limestone received for a period of five years and make such records readily available for District inspection upon request. [District Rule 2201 and 2520] Federally Enforceable Through Title V Permit
16. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Permittee shall perform a complete vent filter inspection on an annual basis. Dust collector filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter breakthrough and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-5-14

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECLAMATION, CONVEYING AND SCREENING OPERATION INCLUDING 45 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER WITH WATER SPRAY SYSTEM, RECLAIMER FEED TABLE, RECLAIMER CONVEYOR #6, AND AUXILIARY FUEL RECLAIM HOPPER (PHASE I) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-9 TO BC-2, BC-10, DS-2 TO BC-8; STATION #2 SERVES TRANSFER POINTS BC-6 TO BC-7, DC-3 TO BC-7), AND 3 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, the limestone feed lines to permit units S-75-1-12 and '-5-11 shall be physically disconnected. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Operation shall include secondary feed conveyor #7 with belt scale, belt type magnetic separators, secondary disk type scalping screen, boiler feed conveyor #8, oversize conveyor #10 and distribution drag conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Operation shall include fuel abort bunker. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Operation shall include overfeed return conveyor #9. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Operation shall include fabric collector #3 (125 hp fan and 3,263 sq. ft. minimum filtering area) serving transfer point from reclaimer feed table, auxiliary fuel reclaim hopper inlet, and reclaim conveyor #6 shared with S-75-1. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Operation shall include fabric collector #1 (25 hp fan and 750 sq. ft. minimum filtering area) serving head of boiler feed conveyor #8, inlet to secondary disk scalping screen and fuel abort bunker. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Operation shall include fabric collector #4 (100 hp fan and 3,674 sq. ft. min. filter area) serving discharge from conveyor #7, belt separator, inlet to fixed separator, discharge from secondary disk scalping screen, and MAC 95 cyclone #1, shared with permit S-75-1. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Material removed from each fabric collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Material collected by MAC 95 cyclone #1 shall discharge to conveyor BC-8, or to the covered truck loadout via a screw conveyor equipped with operational water sprays at the discharge point. [District Rule 2201] Federally Enforceable Through Title V Permit
15. There shall be no emissions in excess of 5% opacity from storage pile during reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
16. There shall be no emissions in excess of 5% opacity from conveyor transfer points, scalping screen, fuel storage bin inlet and outlet. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fabric collector #4 shall be operated whenever material is being transferred from fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Fabric collector #1 shall be operated whenever material is being transferred from fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Fuel transfer conveyors shall be fully enclosed and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Conveyor belt ventilation hoods shall be designed to provide a minimum indraft velocity of 500 cfm/ft of belt width during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Fabric collector #1 shall have a minimum filtering area of 750 sq. ft. and a air to cloth ratio of 8 ft./min. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Each fabric collector shall be equipped with automatic, adjustable, reverse pulse filter cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Each fabric collector shall be equipped with operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
24. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,200 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
26. All access roads and roadways associated with fuel reclamation operation shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall keep accurate records of material conveyed to fuel storage bin and make such records readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Fugitive PM10 emissions from the covered truck loading operation shall not exceed 0.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The maximum emission rate of PM-10 from fabric collector #1 shall not exceed 0.21 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Particulate matter emissions from the fabric filter dust collectors listed on this permit shall not exceed 0.004 grains/dscf in concentration. [District Rules 2201 and 4201] 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.

31. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
33. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
34. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
35. 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
36. 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
37. During each day of operation, the permittee shall record the pressure drop of the fabric filters, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
38. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-6-35

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

400 MMBTU/HR (32 MW) EPI FLUIDIZED BED, BIOMASS-FUELED BOILER (UNIT #1) WITH NH₃, LIMESTONE, SODIUM BICARBONATE, AND SAND INJECTION, WITH BOILER EXHAUST VENTED TO FABRIC FILTER; AND FOUR 10 MMBTU/HR PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS

PERMIT UNIT REQUIREMENTS

1. Operation of the unit is not authorized until modifications are made to comply with District Rules as authorized by an Authority to Construct. [District Rules 2010 and 4352; 40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
2. {1829} The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
3. While dormant, a blank flange will be installed on the natural gas line and the flange will be locked; no fuel deliveries will be allowed by contract; the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
5. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
7. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
8. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
9. 15 MMBtu/hr natural gas-fired boiler start-up burner shall be of "low-NO_x" design utilizing staged combustion principles. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Boiler shall be equipped with two model ABB steam turbines powering a 32 MW (gross) electrical generator. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Boiler shall be equipped with a sodium bicarbonate (NaHCO₃) injection system. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Boiler shall be equipped with sand supply/reinjection system including bucket elevator #1 discharging to boiler or sand silo with bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Boiler shall be equipped with fluidized bed cleanout vibrating screen, enclosed bucket elevator #2, enclosed magnetic separator and enclosed circulating vibrating screen - with all enclosed equipment vented to boiler fuel inlet chute. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Boiler shall be equipped with eight compartment fabric collector with a minimum filter area of 46,445 sq. ft and a maximum air-to-cloth ratio of 4 ft./min. Boiler shall be equipped with induced draft air fan with 1250 hp motor. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Each compartment of fabric collector shall be equipped with an operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [40 CFR Part 64 and District Rule 2201] Federally Enforceable Through Title V Permit
16. The fabric collector shall operate at all times with a minimum differential pressure of 4 inches water column and a maximum differential pressure of 12 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. Combustion air supply lines and auxiliary burner natural gas supply line shall be equipped with operational volumetric flow-rate indicators. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Selective non-catalytic reduction ammonia injection system shall be equipped with operational ammonia volume flow-rate indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Fabric collector exhaust stack shall be equipped with recording continuous monitors for opacity, SO₂, NO₂, CO, O₂, and flue gas volume flow-rate per Rule 1081. [District Rules 1081 and 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
20. Only PUC quality natural gas, biomass, sand, limestone, ammonia, air, sodium bicarbonate (NaHCO₃), and on-site generated dewatered cooling tower sludge shall be introduced into boiler. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
21. Wood fuel includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
22. Natural gas used as fuel shall not exceed 5,691,429 std. cu. ft. per day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Removal of ash from ash hoppers by manual means shall only be conducted during breakdown conditions or when boiler is not operating, and there shall be no visible emissions for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or 20 % opacity. [District Rules 4101 and 4102] Federally Enforceable Through Title V Permit
24. Limestone, sodium bicarbonate (NaHCO₃) and/or onsite generated cooling tower sludge, shall be injected into boiler at a rate in pounds per ton of biomass fuel introduced into boiler which results in compliance with the SO_x emission limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Ammonia shall be injected into boiler at a rate, in pounds per ton of biomass fuel introduced into boiler, which results in compliance with the NO_x emission limitation. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Ammonia injection shall be accomplished in the temperature range of 1600 to 1900 deg. F. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Ammonia injection rate shall be controlled to prevent the emission of free ammonia in excess of 20 ppmv or such level as required to prevent detectable odors or a maximum concentration of 50 ppmv at ground level. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
28. NO_x and PM₁₀ emission data shall be obtained and provided, as required by NSPS 40CFR60.48b "Emissions monitoring for particulate and nitrogen oxides." CEM data shall be provided as required by 60.48b(f). [District Rule 4001 and 40 CFR 60 Subpart Db] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

29. Particulate matter (PM10) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.010 gr/dscf @ 12% CO₂ (of filterable particulate) and 15.98 lb/hr (including condensable particulate). [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
30. Sulfur compound emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 18.8 ppmvd @ 3% O₂ and 13.2 lb/hr (as SO₂). [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
31. Oxides of nitrogen emissions (as NO₂), except for periods of startup and shutdown as defined in this permit, shall not exceed 0.10 lb/MMBtu and 40.00 lb/hr. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
32. Volatile Organic Compound (VOC) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.02 lb/MMBTU and 8.0 lb/hr. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
33. Carbon Monoxide (CO) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 181 ppmvd @ 3% O₂ and 56.00 lb/hr. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 500 lb/hr in any single hour during the startup or shutdown. [District Rules 2201, 2410, and 4352] Federally Enforceable Through Title V Permit
34. Boiler emission rates shall not exceed any of the following: PM10: 383.5 lb/day, SO_x (as SO₂): 316.8 lb/day, NO_x (as NO₂): 960.0 lb/day, VOC: 192.0 lb/day or CO (except during days of refractory cure or on days with startup and shutdown operations): 1344.0 lb/day. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 3,500 lb/day. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
35. On days of refractory cure using startup burner, CO emissions shall not exceed 7,680 lb/day and heat input to boiler shall not exceed 3,909.4 MMBtu/day. Compliance with CO emission limit on each refractory cure day shall be demonstrated by records of fuel use, fuel heat content, and resulting daily heat rate input. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
36. On days of refractory cure using 40 MMBtu/hr refractory cure heaters, heat input shall not exceed 960 MMBtu/day to the refractory cure heaters. Refractory burner emission rates shall not exceed any of the following: PM10: 0.0076 lb/MMBtu, SO_x (as SO₂): 0.00285 lb/MMBtu, NO_x (as NO₂): 0.1 lb/MMBtu, VOC: 0.0055 lb/MMBtu or CO: 0.3 lb/MMBtu. Daily records of fuel use, fuel heat content, and resulting daily heat rate input shall be kept, to demonstrate compliance with emission limits during refractory curing. [District Rule 2201] Federally Enforceable Through Title V Permit
37. This boiler shall not be operated under refractory cure conditions for more than 6 days per year. Refractory cure shall not be performed on more than one unit (Boiler #1, S-75-6 or Boiler #2, S-75-11) at any time. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Permittee shall notify the District in writing of the start date and end date of operating under refractory cure and alternate CO emission limit condition. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Excess emissions for NO_x, SO_x, SO₂, and CO for the continuous monitoring system shall be defined as any 24 hour period during which the average emissions of NO_x, SO_x or CO exceed any emission limit, except as noted in this permit on days of refractory cure or on day(s) in which a startup or shutdown of this unit occurs. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
40. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
41. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
42. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 & 75%. [District Rules 2201 and 4352] 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.

43. "Steady state" load is defined as the operational conditions that generate electrical power at + or - one (1) Megawatt from the target load established and documented by control room log book. [District Rule 2201] Federally Enforceable Through Title V Permit
44. During startup and shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
45. Annual audits of continuous monitors shall be conducted by independent laboratory in accordance with E.P.A. guidelines, shall be witnessed by District and results shall be submitted to District within 60 days of such audit pursuant to Rule 1080. [District Rule 1080] Federally Enforceable Through Title V Permit
46. Compliance with biomass fuel contamination limits shall be demonstrated by sorting a District approved 25 ton representative sample of biomass fuel in the reclaim pile upon District request. [District Rule 4102]
47. Data collected during sorting of 25 ton sample of biomass fuel shall be in pounds of material per ton of biomass, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102]
48. Compliance with PM10, SOx, NOx and CO emission sampling limits (except CO during designated refractory cure days) shall be demonstrated by District-witnessed sample collection by independent testing laboratory annually, or within 60 days of startup if the unit had been shutdown. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
49. Source testing for the following parameters shall be conducted using the stated test methods: NOx - EPA Method 7 or ARB Method 100; CO - EPA Method 10 or ARB Method 100; CO2 - EPA Method 3 or ARB Method 100; O2 - EPA Method 3 or 3A, or ARB Method 100; SO2 - EPA Method 6 or ARB Method 100; PM10 - EPA Method 5 or 201A & 202; NOx emission rate (Heat input basis) - EPA method 19; Stack Gas Velocities - EPA Method 2; Moisture Content - EPA Method 4; Ammonia - BAAQMD ST1B and Solid Fuel Higher Heating Value - ASTM Method D2015 or E711. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
50. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
51. Permittee shall annually offset actual emissions of the following pollutant emission rates in pounds per year: PM10, 219,037; SO2, 143,883 (PM impact only); NOx 238,527; VOC 54,750; CO, 614,186 through the elimination of sufficient annual tonnage of agricultural waste diverted from open burning. [District Rule 2201] Federally Enforceable Through Title V Permit
52. Permittee shall project and use the proper mix of fuels to ensure that actual emissions from boiler S-75-6 are offset with creditable biomass on a quarterly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
53. Open-burning emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning are listed in the attachment "Open Burn Emission Factors" (District policy SSP-2005). [District Rule 2201] Federally Enforceable Through Title V Permit
54. If quarterly actual emissions from boiler S-75-11 are greater than zero, the emission reduction credit from creditable biomass fuel shall be calculated using the following formula: $P_q = x * [\sum_{j=1}^n (B_j) * (EF_j) * (HBF_j) * (QDF_{jq})]$ where: P_q = Pollutant offset credit in lb/qtr = sum of emissions (by pollutant) from ag waste credit < 15 miles + emissions > 15 miles from facility. q = calendar quarter, $x = 0.5$ for biomass originating > 15 miles and 0.833 for < 15 miles. j = each creditable biomass type. B = tons of biomass type (j) used per quarter. EF = emission factor for particular biomass (from SSP-2005). HBF_j = fraction of biomass type (j) that has been demonstrated to have historically open field burned (for orchard prunings $HBF=0.96$, for other biomass a District approved HBF factor must be used). QDF_{jq} = Quarterly distribution factor - fraction of burning of biomass (j) which occurs in calendar quarter (q). For orchard prunings $QDF = Q1: 0.251, Q2: 0.275, Q3: 0.149, Q4: 0.325$. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

55. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 1080 and 2201] Federally Enforceable Through Title V Permit
56. Daily records for each load of creditable biomass received shall be maintained which include the geographic origin (for applicability of distance offset ratio), date, weigh ticket number, supplier name, fuel type, tons received, the offset ratio for the load of biomass, and the amount of offset credit (in pounds of NO_x) attributable to each load of biomass. Records shall include certifications that any creditable biomass for which offset credit is claimed has historically been open burned in the San Joaquin Valley air basin. [District Rule 2201] Federally Enforceable Through Title V Permit
57. Permittee shall demonstrate compliance with the emission offset requirements by submitting to the District a quarterly report accounting for the tonnage of agricultural waste eliminated from open field burning and used as plant fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
58. Quarterly report of agricultural waste eliminated from open field burning used as fuel at facility shall document creditable ag waste fuel receipt quantities, if fuel originates > 15 miles from facility, offset credit ratios, emission factors used, and summary of the resultant emissions offsets provided using "the procedure", and shall be submitted to the District within 30 days of the end of the quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
59. Quarterly report, of agricultural waste eliminated from open field burning used for the purpose of providing required offsets, shall document historical biomass fraction (HBF) and quarterly distribution factor (QDF) for each biomass fuel used to calculate credit. For orchard prunings HBF = 0.96 and QDF = as stated in this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
60. All equipment, facilities, and systems shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [District Rule 2410] Federally Enforceable Through Title V Permit
61. The SJVAPCD shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit. In addition, the SJVAPCD shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of the permit or of any law or regulations which such malfunction may cause. [District Rule 2410] Federally Enforceable Through Title V Permit
62. In the event of any changes in control or ownership, this permit shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, a copy of which shall be forwarded to the State, CARB, and the SJVAPCD. [District Rule 2410] Federally Enforceable Through Title V Permit
63. The provisions of this permit are severable, and, if any provisions of this permit is held invalid, the remainder of this permit shall not be affected thereby. [District Rule 2410] Federally Enforceable Through Title V Permit
64. The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable federal, state and local air quality regulations. [District Rule 2410] Federally Enforceable Through Title V Permit
65. For performance test purposes, sampling ports, platforms, and access shall be provided on the combustion exhaust system in accordance with 40 CFR 60.8(e). [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

66. Permittee shall continuously record the steam output and the steam temperature and pressure from the boiler; also, permittee shall determine the boiler efficiency annually. The heat input, as determined from the boiler efficiency and steam production rate, shall not exceed 400 MMBtu/hr. [District Rule 2410] Federally Enforceable Through Title V Permit
67. If the emission limit for any of the above pollutants (SO₂, NO_x, PM₁₀, and CO) is revised, the difference between the pollutant emission limit set forth above and the lower pollutant emission limit shall not be allowed as an emission offset for future construction or modification. [District Rule 2410] Federally Enforceable Through Title V Permit
68. Permittee shall maintain and operate a continuous monitoring system to measure stack gas NO_x, CO, SO₂, O₂ and Opacity in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specifications 1,2,3,and 4). [District Rules 2410 and 4001 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
69. Permittee shall maintain and operate a continuous monitoring system to measure stack gas volumetric flow rates in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR Part 60, Appendix B, Performance Specification 6). [District Rule 2410] Federally Enforceable Through Title V Permit
70. Permittee shall submit a written report of all excess emissions to the SJVAPCD for every calendar quarter. The report shall include the following: a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. b) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns, and malfunctions of any of the boilers. The nature and cause of any malfunction (if known) and the corrective action take or preventative measures adopted shall also be reported. c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report. [District Rule 2410] Federally Enforceable Through Title V Permit
71. Excess emissions shall be defined as any period greater than three minutes during which the average opacity as measured by the continuous monitoring system exceeds the maximum emission limit. [District Rule 2410] Federally Enforceable Through Title V Permit
72. Permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [District Rule 2410] Federally Enforceable Through Title V Permit
73. Biomass fuel sulfur shall not exceed 0.90% dry weight and biomass fuel nitrogen shall not exceed 2.5% dry weight. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
74. Biomass means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips and discarded wood, including clean, chipped wood products, plywood, particle board, fiberboard and wood products manufacturing items, wood based construction demolition materials, pallets, crates and boxes. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal solid waste. [District Rules 2201, 2410, and 4102] Federally Enforceable Through Title V Permit
75. Additional biomass fuels may be administratively appended to this list upon a written request by the permittee to add an unlisted fuel, and provided the permittee can demonstrate that emissions of affected pollutants will not increase and that the boiler is designed to accommodate such fuel without physical or operational modifications. [District Rule 2410] Federally Enforceable Through Title V Permit
76. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal waste. In addition, contamination of the biomass fuel shall not exceed 0.04% by weight plastics and 0.62% by weight of metals, plastics, paper, painted wood, preservative treated wood and nonwood roofing materials (except asbestos). [District Rules 2410 and 4102] 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.

77. Boiler shall not consume more than 14,285.7 scf/hr of natural gas with a higher heating value (HHV) of 1,050 Btu/scf. [District Rule 2410] Federally Enforceable Through Title V Permit
78. Boiler shall meet all applicable requirements of 40 CFR 60 Subparts A and Db. [District Rules 2410 and 4001] Federally Enforceable Through Title V Permit
79. All correspondence as required by this Operating Permit shall be forwarded to the following addresses: 1) Chief, Stationary Source Division, California Air Resources Board, PO Box 2815, Sacramento, CA 95812; 2) SJVUAPCD Compliance Department, 34946 Flyover Court, Bakersfield, CA 93308. [District Rule 2410] Federally Enforceable Through Title V Permit
80. The owner/operator shall operate, maintain and calibrate Continuous Emission Monitoring system pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F. [District Rule 4352 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
81. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.3 (as amended 12/15/11), or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
82. The compliance determination shall not be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
83. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
84. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
85. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
86. 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
87. 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
88. During each day of operation, the permittee shall record the pressure drop of the fabric filter, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
89. Upon detecting any excursion from the 20% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit
90. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
91. Particulate matter emissions from the combustion contaminants derived from the fuel shall not exceed 10.0 lb/hr. [District Rule 4301] Federally Enforceable Through Title V Permit
92. Records of startup and shutdown times and startup and shutdown emissions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

93. Permittee shall comply with the requirements of 40 CFR 63 Part DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
94. HCl emissions from this unit shall not exceed 0.022 lb/MMBtu except during periods of startup and shutdown. HCl emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
95. Mercury emissions from this unit shall not exceed 0.0000057 lb/MMBtu except during periods of startup and shutdown. Mercury emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
96. CO emissions shall not exceed 310 ppmvd @ 3% O₂ on a 30-day rolling CEMS average (as defined in Subpart DDDDD § 63.7575) except during periods of startup and shutdown. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
97. Filterable PM shall not exceed 0.11 lb/MMBtu except during periods of startup and shutdown, or total selected metals (TSM) as defined in 40 CFR 63 Subpart DDDDD shall not exceed 0.0012 lb/MMBtu except during periods of startup and shutdown. Filterable PM or TSM emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
98. By January 31, 2016, and annually thereafter, the permittee shall perform a tune-up of the boiler as specified in 40 CFR 63.7540. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
99. By January 31, 2016, permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment that has been completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes this unit also satisfies this requirement. The energy assessment must include the following items with extent of the evaluation for items a through e appropriate for the on-site technical hours listed in 40 CFR 63.7575: a) A visual inspection of the boiler or process heater system; b) An evaluation of operating characteristics of the boiler, specification of energy using systems, operating and maintenance procedures, and unusual operating constraints; c) An inventory of major energy use systems consuming energy from the boiler and which are under the control of the boiler owner/operator; d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified; f) A list of cost effective energy conservation measures that are within the facility's control; g) A list of energy savings potential of the energy conservation measures identified; and h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those improvements. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
100. Permittee shall operate all continuous monitoring systems during startup and shutdown of the boiler. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
101. Permittee shall comply with all applicable emissions limits at all times except for startup or shutdown periods conforming with this work practice. Permittee shall collect monitoring data during periods of startup and shutdown, as specified in §63.7535(b). Permittee shall keep records during periods of startup and shutdown and shall provide reports concerning activities and periods of startup and shutdown, as specified in §63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
102. Permittee shall vent emissions to the main stack(s) upon firing the unit on biomass and shall engage all of the applicable control devices except limestone injection in fluidized bed combustion boilers, fabric filter, and selective non-catalytic reduction. Those systems shall be started as expeditiously as possible. Permittee shall collect monitoring data during periods of startup as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of startup. Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
103. Opacity from the boiler shall not exceed 10% on a daily block average. [40 CFR Part 63 Subpart DDDDD] 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.

104. Permittee shall maintain the 30-day rolling average sorbent (limestone, bicarbonate) or carbon injection rate at or above the minimum sorbent or carbon injection rate as defined in §63.7575 of 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
105. Permittee shall ensure that the flow of injected sorbent (limestone, bicarbonate) or carbon is not interrupted by operating an opacity meter, triboelectric monitoring system, or other system (approved by the District in writing) that alerts the permittee that an absence of flow of sorbent or carbon is present. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
106. For boilers that demonstrate compliance with a performance test, the permittee shall maintain the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
107. Filterable PM, TSM, HCl, and mercury emissions shall be source tested using the methods and procedures specified in Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
108. Reports required by 40 CFR 63 Subpart DDDDD shall be submitted electronically or by hard copy to EPA as described in 40 CFR 63.7550 and to SJVAPCD. [40 CFR Part 63 Subpart DDDDD] 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: S-75-7-8

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

44,883 GALLON ASH STORAGE SILO WITH UNLOADING SPOUT, BOTH SERVED BY BIN VENT FILTER WITH 95 SQ.FT FILTER AREA AND 1/2 HP MOTOR - SILO RECEIVING MATERIAL FROM PHASE I AND PHASE II ASH HANDLING CONVEYOR

PERMIT UNIT REQUIREMENTS

1. While dormant, the boiler ash conveyor motors will be locked and maintained in the off position. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Phase I ash handling system shall include three boiler ash conveyors, eight baghouse rotary feeders, two baghouse conveyors, one main ash conveyor and one silo conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Phase II ash handling system shall include one boiler ash conveyors, six baghouse rotary feeders, two baghouse conveyors, one main ash conveyor and one silo conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Silo shall include vibrating bin, rotary feeder, bin vent filter and paddle type ash conditioner. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Ash shall not be removed from any ash hopper, conveying system or ash silo by manual means during normal operation. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Operation shall include telescoping ash unloading spout and 5 hp dust withdrawal fan discharging collected particulate back into ash silo served by bin vent. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Only material which has been mixed with sufficient water to prevent visible emissions, of 5% opacity or greater, shall be unloaded from ash silo unloading conditioner. [District Rule 2201] Federally Enforceable Through Title V Permit
14. There shall be no visible emissions of 5% opacity or greater from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Only covered truck shall be loaded with ash silo contents. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Storage silo shall vent only through bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Bin vent filter shall have a maximum air to cloth ratio of 5 ft./min, and minimum filter area of 95 sq. ft. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Bin vent filter shall be equipped with adjustable, automatic reverse pulse jet cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Bin vent filter shall be equipped with operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Ash silo unloading conditioning unit shall be dust tight. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Records of amounts of ash loaded into disposal trucks shall be maintained and made readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The maximum emission rate of volatile organic compounds shall not exceed 0.02 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Particulate matter emissions shall not exceed 0.010 grains/dscf in concentration. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
25. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
26. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
27. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-9-12

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECEIVING, SCREENING & CONVEYING OPERATION INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 100 TON/HR FUEL RECEIVING CONVEYOR #11 W/BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-11 TO DS-3, HOG-2 TO BC-13, BC-12; STATION #3 SERVES POINTS BC-16 & BC-17), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #3, AND AND 3 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, no fuel deliveries will be allowed by contract and the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Truck tipper platform, fuel receiving hopper, and fuel receiving conveyor shall vent only to fabric collector #5. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fuel receiving operation shall include belt type magnetic separator #3. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fuel receiving operation shall be equipped with ventilation system and fabric collector #5 with a minimum filter area of 4,875 sq. ft., maximum air-to-cloth ratio of 8:1, 100 hp exhaust fan, 5.0 hp reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Fuel receiving operation shall be equipped with disk type scalping screen and two position pneumatically operated diverter gate #5. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Fuel receiving operation shall be equipped with swing hammer type hog with metal trap. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Fuel receiving operation shall be equipped with 50 ton/hr capacity disk screen overs conveyor #12 with operational water dust suppression, 100 ton/hr capacity screen/hog discharge conveyor #13 with operational water dust suppression, and 135 ton/hr capacity fuel transfer conveyor #14. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Fuel receiving operation shall be equipped with ventilation systems and fabric collector #6 with a minimum filter area of 2,505 sq. ft., maximum air-to-cloth ratio of 8:1, 60 hp exhaust fan, 3.0 hp reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Fabric collector #6 shall serve disk type scalping screen, diverter gate #5, swing hammer type hog, disk screen overs conveyor #12, screen/hog discharge conveyor #13, and fuel transfer conveyor #14. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Fuel receiving operation shall be equipped with two position pneumatically operated diverter gates number 6 and number 7. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Fuel receiving operation shall be equipped with 135 ton/hr capacity fixed stacker feed conveyor #17 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fuel receiving operation fixed stacker shall be equipped with telescoping spout with dust pick-up shroud. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Fuel receiving operation shall be equipped with 170 ton/hr capacity radial stacker feed conveyor #15. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Fuel receiving operation shall be equipped with 170 ton/hr capacity radial stacker conveyor #16 with operational water dust suppression shared with permit unit S-75-10. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Fuel receiving operation radial stacker shall be equipped with telescoping spout with dust pick-up shroud. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Water injection nozzles on radial and fixed stacker conveyors BC16 and BC17 shall be operated as needed, to ensure dust emissions have visible emissions of less than or equal to 20% opacity. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Fuel receiving operation shall be equipped with ventilation system and fabric collector #7 with minimum of 4,466 sq. ft. filter area, maximum air-to-cloth ratio of 8:1, 200 hp exhaust fan, 5.0 hp reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Fabric collector #7 shall serve diverter gates #6 and #7, fixed stacker feed conveyor #17, fixed stacker telescoping spout, radial stacker feed conveyor #15, radial stacker conveyor #16, radial stacker telescoping spout, and equipment identified on permit S-75-10. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Truck tipper receiving hopper ventilation pickup points shall prevent particulate matter emissions to atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Truck tipper receiving hopper ventilation hood and hog ventilation hoods shall provide minimum indraft velocity of 200 ft./min. during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Truck tipper receiving hopper drag chain conveyor transfer point hood shall provide minimum indraft velocity of 150 ft./min. during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft. of belt width during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Scalping screen ventilation hood shall be designed to provide minimum indraft velocity of 50 ft./min. during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism and operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] 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.

30. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Radial stackers telescoping spout discharge height shall be maintained as close as possible to top of storage pile. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Each ventilation system duct shall be equipped with capped 3/4 in. pitot port in an accessible location to facilitate duct velocity determination measurement. [District Rule 1081] Federally Enforceable Through Title V Permit
33. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,400 ft./min. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Deliveries of wood waste fuel shall not exceed 46 truck loads per day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Ventilation system and fabric collector shall operate whenever material is being transferred into or out of receiving hoppers. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Wood waste delivery trucks shall remain covered during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
37. There shall be no visible emissions of 5% opacity or greater from truck tipper or receiving hopper during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Truck tipper receiving hopper fabric collector #5 shall be operated whenever material is being transferred into and out of hoppers. [District Rule 2201] Federally Enforceable Through Title V Permit
39. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and hog enclosures, including inlet and outlet openings. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Ventilation system and fabric collector #6 shall be operated whenever material is being transferred from fuel receiving operation. [District Rule 2201] Federally Enforceable Through Title V Permit
41. Ventilation system and fabric collector #7 shall be operated whenever material is being transferred from fuel receiving operations. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Material removed from each fabric collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Fuel transfer conveyors shall be covered and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Any stored fuel which is burning shall be immediately segregated and extinguished. [District Rule 2201] Federally Enforceable Through Title V Permit
45. All access roads and roadways associated with truck unloading operations shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
46. Operator shall visually check each truckload for unacceptable fuel before unloading. For non-agricultural fuel (e.g. secondary wood), a representative sample shall be taken from each source each day and stored for one month. [District Rule 2201] Federally Enforceable Through Title V Permit
47. Fuel samples shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
48. Particulate matter (PM-10) emissions from all fabric collectors shall not exceed 0.004 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
49. Particulate matter (PM-10) emissions from truck dump area fabric collector #5 shall not exceed 1.18 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Particulate matter (PM-10) emissions from scalping screen/hog area fabric collector #6 shall not exceed 0.67 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

51. Particulate matter (PM-10) emissions from stacker/reclaimer fabric collector #7 shall not exceed 1.25 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
52. Fugitive particulate matter (PM-10) emissions from fuel storage piles shall not exceed 60.81 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
53. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
54. Official test results and field data collected shall be submitted to the District within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
55. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
56. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
57. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
58. 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
59. 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
60. During each day of operation, the permittee shall record the pressure drop of the fabric collector, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
61. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
62. Operator shall record the daily number of truck deliveries of wood waste fuel. [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: S-75-10-14

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECLAMATION, CONVEYING & SCREENING OPERATION INCLUDING 35 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER #DC-4 WITH WATER SPRAY SYSTEM AND BOOMING AND SLEWING SYSTEM (SHARED WITH S-75-9) (PHASE II) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS DS-4 ABORT CHUTE, DS-4 TO BC-21; STATION #3 SERVES TRANSFER POINTS BC-18 TO BC-20, BC-19 TO BC-20), AND 2 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, no fuel deliveries will be allowed by contract and the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Fuel reclamation operation shall be equipped with reclaimer table and reclaim transfer conveyor #19 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fuel reclamation operation shall be equipped with self-cleaning belt-type magnetic separator #4, and magnetic discharge take away conveyor #24. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fuel reclamation operation shall be equipped with partially enclosed 35 ton/hr auxiliary reclaim hopper #DC-5 with water sprays, and inclined live chain bottom and double spike roll discharger. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Fuel reclamation operation shall be equipped with 35 ton/hr capacity auxiliary reclaimer discharge conveyor #18. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #7. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Fuel reclamation operation shall be equipped with 35 ton/hr capacity, secondary screen feed conveyor #20 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Fuel reclamation operation shall be equipped with self cleaning, belt type, magnetic separator #5 and collection system. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #8. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Fuel reclamation operation shall be equipped with secondary disk type, scalping screen and oversized discharge chute and bunker. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Fuel reclamation operation shall be equipped with 35 ton/hr capacity boiler feed conveyor #21 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fuel reclamation operation shall be equipped with ventilation system, cyclone #2 (MAC H85) and fabric collector #9 with minimum of 1,832 sq. ft. filter area, maximum air-to-cloth ratio of 10.92 ft/min, 60 hp exhaust fan, reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Material collected by MAC H85 cyclone #2 shall discharge either to conveyor BC-21 or to the covered truck loadout listed on permit S-75-5. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Secondary scalping screen fabric collector #9 shall serve secondary screen conveyor #20, magnetic separator #5, diverter gate #8, secondary scalping screen, discharge chute and bunker, boiler feed conveyor, and beginning of fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Fuel reclamation operation shall be equipped with boiler distribution conveyor #DC-6. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Fuel reclamation operation shall be equipped with 35 ton/hr capacity, overfeed conveyor #22. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #9. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Fuel reclamation operation shall be equipped with abort bunker. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Fuel reclamation operation shall be equipped with ventilation system and fabric collector #11 with minimum of 1430 sq. ft. filter area, maximum air-to-cloth ratio of 8.2 ft/min, 50 hp exhaust fan, reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Boiler area fabric collector #11 shall serve boiler distribution conveyor #DC-6, overfeed conveyor #22, diverter gate #9, abort bunker, and existing #BC-9. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft. of belt width during fuel reclamation, conveying and screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Secondary scalping screen ventilation hood shall provide minimum indraft velocity of 50 ft./min. while screen is in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Each fabric collector shall be equipped with operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
30. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Material removed from each fabric collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

32. Each ventilation system duct shall be equipped with capped 3/4 in. pitot port in an accessible location to facilitate duct velocity determination measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
33. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,400 ft./min. [District Rule 2201] Federally Enforceable Through Title V Permit
34. There shall be no visible emissions of 5% opacity or greater from storage pile during reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
35. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and fuel storage bin, including inlet and outlet openings. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Boiler area fabric collector #11 shall be operated whenever material is being transferred from fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Fuel transfer conveyors shall be covered and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Particulate matter (PM10) emissions from fabric collector #9 shall not exceed 0.004 gr/scf, and maximum air flow shall not exceed 20,000 cfm. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Particulate matter (PM10) emissions from fabric collector #11 shall not exceed 0.0036 gr/scf, and maximum air flow shall not exceed 11,750 cfm. [District Rule 2201] Federally Enforceable Through Title V Permit
40. All access roads and roadways associated with fuel reclamation operation shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
41. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
42. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
43. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
44. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
45. 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
46. 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
47. During each day of operation, the permittee shall record the pressure drop of the fabric filters, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
48. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-11-31

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

315 MMBTU/HR EPI FLUIDIZED BUBBLING BED, BIOMASS-FUELED BOILER (UNIT #2) WITH NH₃, LIMESTONE, SAND AND SODIUM BICARBONATE (NAHCO₃) INJECTION, WITH BOILER EXHAUST VENTED TO SIX COMPARTMENT FABRIC FILTER DUST COLLECTOR; AND FOUR 10 MMBTU/HR THERMAL SOLUTIONS INCORPORATED MODEL NO. TSI-10 PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS

PERMIT UNIT REQUIREMENTS

1. Operation of the unit is not authorized until modifications are made to comply with District Rules as authorized by an Authority to Construct. [District Rules 2010 and 4352; 40 CFR Part 63, Subpart DDDDD] Federally Enforceable Through Title V Permit
2. {1829} The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
3. While dormant, a blank flange will be installed on the natural gas line and the flange will be locked; no fuel deliveries will be allowed by contract; the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
5. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
7. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
8. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
9. 15 MMBtu/hr start-up and 40 MMBtu/hr overhead natural gas-fired burners shall be of "low-NO_x" design utilizing staged combustion principles. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Boiler shall be equipped with two steam turbines powering a 24.5 MW (gross) electrical generator. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Boiler shall be equipped with a sodium bicarbonate (NaHCO₃) injection system. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Boiler shall be equipped with sand supply/reinjection system including two bucket elevators. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Boiler exhaust shall be served by six compartment fabric collector with a minimum filter area of 36,378 square feet and maximum air-to-cloth ratio of 4 ft./min. Boiler shall be equipped with induced draft air fan with 1,000 hp electric motor. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Each compartment of fabric collector shall be equipped with operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. The fabric collector shall operate at all times with a minimum differential pressure of 4 inches water column and a maximum differential pressure of 12 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
16. Combustion air supply lines and auxiliary burner natural gas supply line shall be equipped with operational volumetric flow-rate indicators. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Selective non-catalytic reduction ammonia injection system shall be equipped with operational ammonia volume flow-rate indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Fabric collector exhaust stack shall be equipped with recording continuous monitors for opacity, SO₂, NO₂, CO, O₂, and flue gas volume flow-rate per Rule 1081. [District Rules 2201 and 1081 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
19. Only PUC quality natural gas, biomass, sand, limestone, ammonia, air, sodium bicarbonate (NaHCO₃), and on-site generated dewatered cooling tower sludge shall be introduced into boiler. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
20. Wood fuel includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
21. Startup burner shall not operate when feed rate of biomass exceeds 20 tons per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Removal of ash from ash hoppers by manual means shall only be conducted during breakdown conditions or when boiler is not operating, and there shall be no visible emissions for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or 20% opacity. [District Rules 4101 and 4102] Federally Enforceable Through Title V Permit
23. Limestone, sodium bicarbonate (NaHCO₃) and/or onsite generated cooling tower sludge, shall be injected into boiler at a rate in pounds per ton of biomass fuel introduced into boiler which results in compliance with the SO_x emission limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Ammonia shall be injected into boiler at a rate, in pounds per ton of biomass fuel introduced into boiler, which results in compliance with the NO_x emission limitation. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Ammonia injection rate shall be controlled to prevent the emission of free ammonia in excess of 20 ppmv or such level as required to prevent detectable odors or a maximum concentration of 50 ppmv at ground level. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
26. NO_x and PM₁₀ emission data shall be obtained and provided, as required by NSPS 40CFR60.48b "Emissions monitoring for particulate and nitrogen oxides". CEM data shall be provided as required by 60.48b(f). [District Rule 4001 and 40 CFR 60 Subpart Db] Federally Enforceable Through Title V Permit
27. Particulate matter (PM₁₀) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.045 lb/MMBTU of filterable particulates and 14.08 lb/hr of filterable and condensable particulates. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
28. Sulfur compound emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 23 ppmvd @ 3% O₂ and 12.09 lb/hr (as SO₂). [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

29. Oxides of nitrogen emissions (as NO₂), except for periods of startup and shutdown as defined in this permit, shall not exceed 0.10 lb/MMBtu and 31.50 lb/hr. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
30. Volatile organic compound (VOC) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.020 lb/MMBTU and 6.3 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Carbon monoxide (CO) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 183 ppmvd @ 3% O₂ and 44.10 lb/hr. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 500 lb/hr in any single hour during the startup or shutdown. [District Rules 2201, 2410, and 4352] Federally Enforceable Through Title V Permit
32. Emission rates shall not exceed any of the following: PM₁₀: 337.9 lb/day, SO_x (as SO₂): 290.2 lb/day, NO_x (as NO₂): 756.0 lb/day, VOC: 151.2 lb/day or CO (except during days of refractory cure or on days with startup and shut operations): 1058.4 lb/day. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 3,500 lb/day. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
33. On days of refractory cure using startup burner, CO emissions shall not exceed 6,240 lb/day and heat input to boiler shall not exceed 3,206.6 MMBtu/day. CO emission limit on each refractory cure day shall be determined by records of fuel use, fuel heat content, and resulting maximum daily heat rate. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
34. On days of refractory cure using four 10 MMBtu/hr refractory cure heaters, heat input shall not exceed 960 MMBtu/day to the refractory cure heaters. Refractory burner emission rates shall not exceed any of the following: PM₁₀: 0.0076 lb/MMBtu, SO_x (as SO₂): 0.00285 lb/MMBtu, NO_x (as NO₂): 0.1 lb/MMBtu, VOC: 0.0055 lb/MMBtu or CO: 0.3 lb/MMBtu. Daily records of fuel use, fuel heat content, and resulting daily heat rate input shall be kept, to demonstrate compliance with emission limits during refractory curing. [District Rule 2201] Federally Enforceable Through Title V Permit
35. This boiler shall not be operated under refractory cure conditions for more than 6 days per year. Refractory cure shall not be performed on more than one unit (Boiler #1, S-75-6 or Boiler #2, S-75-11) at any time. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Permittee shall notify the District in writing of the start date and end date of operating under refractory cure and alternate CO emission limit condition. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Excess emissions of NO_x, SO_x, SO₂, and CO as shown by the continuous monitoring system shall be defined as any 24 hour period during which the average emissions of NO_x, SO_x, or CO exceed any emissions limit, except as noted in this permit on days of refractory cure or on day(s) in which a startup or shutdown of this unit occurs. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
38. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
39. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
40. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 & 75%. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
41. "Steady state" load is defined as the operational conditions that generate electrical power at + or - one (1) megawatt from the target load established and documented by control room log book. [District Rule 2201] Federally Enforceable Through Title V Permit
42. During startup and shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
43. Annual audits of continuous monitors shall be conducted by independent laboratory in accordance with E.P.A. guidelines, shall be witnessed by District and results shall be submitted to District within 60 days of such audit pursuant to Rule 1080. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

44. Upon District request, a District approved 25 ton representative sample of biomass fuel in the reclaim pile shall be sorted. [District Rule 4102]
45. Data collected during sorting of 25 ton sample of biomass fuel shall be in pounds of material per ton of biomass, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102]
46. District-witnessed emission sample collection for PM₁₀, SO_x, NO_x and CO (except CO during designated refractory cure days) shall be conducted by an independent testing laboratory annually, or within 60 days of startup if the unit had been shutdown. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
47. Source testing for the following parameters shall be conducted using the stated test methods: NO_x - EPA Method 7 or ARB Method 100, CO - EPA Method 10 or ARB Method 100, CO₂ - EPA Method 3 or ARB Method 100, O₂ - EPA Method 3 or ARB Method 100, SO₂ - EPA Method 6 or ARB Method 100, PM₁₀ - EPA Method 5 or 201A & 202, Stack Gas Flow Rate - EPA Method 2, Moisture Content - EPA Method 4, Ammonia - BAAQMD ST1B, & Fuel Heating Value - ASTM Method D2015-85 or E711. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
48. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
49. NO_x emissions shall not exceed 275,920 lb in any 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Permittee shall project and use the proper mix of fuels to ensure that actual emissions from boiler S-75-11 are offset with creditable biomass on a quarterly basis. Quarterly NO_x emission offsets required from creditable biomass = (Actual quarterly emissions) - (604.8 lb/day x days/qtr). [District Rule 2201] Federally Enforceable Through Title V Permit
51. Open-burning emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning are listed in the attachment "Open Burn Emission Factors" (District policy SSP-2005). [District Rule 2201] Federally Enforceable Through Title V Permit
52. If quarterly actual NO_x emissions from boiler S-75-11 are greater than zero, the emission reduction credit from creditable biomass fuel shall be calculated for NO_x using the following formula: $Pq = x * [\sum_{j=1}^n (B_j) * (EF_j) * (HBF_j) * (QDF_{jq})]$ where: Pq = Pollutant offset credit in lb/qtr = sum of NO_x emissions from ag waste credit < 15 miles + NO_x emissions > 15 miles from facility. q = calendar quarter, $x = 0.5$ for biomass originating > 15 miles and 0.833 for < 15 miles. j = each creditable biomass type. B = tons of biomass type (j) used per quarter. EF = emission factor for particular biomass (from SSP-2005). HBF_j = fraction of biomass type (j) that has been demonstrated to have historically open field burned (for orchard prunings $HBF=0.96$, for other biomass a District approved HBF factor must be used). QDF_{jq} = Quarterly distribution factor - fraction of burning of biomass (j) which occurs in calendar quarter (q). For orchard prunings $QDF = Q1: 0.251, Q2: 0.275, Q3: 0.149, Q4: 0.325$. [District Rule 2201] Federally Enforceable Through Title V Permit
53. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. [District Rules 1080 and 2201] Federally Enforceable Through Title V Permit
54. Daily records for each load of creditable biomass received shall be maintained which include the geographic origin (for applicability of distance offset ratio), date, weigh ticket number, supplier name, fuel type, tons received, the offset ratio for the load of biomass, and the amount of offset credit (in pounds of NO_x) attributable to each load of biomass. Records shall include certifications that any creditable biomass for which offset credit is claimed has historically been open burned in the San Joaquin Valley air basin. [District Rule 2201] Federally Enforceable Through Title V Permit
55. Permittee shall submit to the District a quarterly report accounting for the tonnage of agricultural waste eliminated from open field burning and used as plant fuel. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

56. Quarterly report of agricultural waste eliminated from open field burning (to offset NO_x emissions) used as fuel at facility shall document creditable ag waste fuel receipt quantities, if fuel originates > 15 miles from facility, offset credit ratios, emission factors used, and summary of the resultant emissions offsets provided using "the procedure", and shall be submitted to the District within 30 days of the end of the quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
57. Quarterly report, of agricultural waste eliminated from open field burning used for the purpose of providing required NO_x offsets, shall document historical biomass fraction (HBF) and quarterly distribution factor (QDF) for each biomass fuel used to calculate credit. For orchard prunings HBF = 0.96 and QDF = as stated in this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
58. All equipment, facilities, and systems shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [District Rule 2410] Federally Enforceable Through Title V Permit
59. The SJVAPCD shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit. In addition, the SJVAPCD shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of the permit or of any law or regulations which such malfunction may cause. [District Rule 2410] Federally Enforceable Through Title V Permit
60. In the event of any changes in control or ownership, this permit shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, a copy of which shall be forwarded to the State, CARB, and the SJVAPCD. [District Rule 2410] Federally Enforceable Through Title V Permit
61. The provisions of this permit are severable, and, if any provisions of this permit is held invalid, the remainder of this permit shall not be affected thereby. [District Rule 2410] Federally Enforceable Through Title V Permit
62. The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable federal, state and local air quality regulations. [District Rule 2410] Federally Enforceable Through Title V Permit
63. For performance test purposes, sampling ports, platforms, and access shall be provided on the combustion exhaust system in accordance with 40 CFR 60.8(e). [District Rule 1081] Federally Enforceable Through Title V Permit
64. Permittee shall continuously record the steam output and the steam temperature and pressure from the boiler; also, permittee shall determine the boiler efficiency annually. The heat input, as determined from the boiler efficiency and steam production rate, shall not exceed 315 MMBtu/hr. [District Rule 2410] Federally Enforceable Through Title V Permit
65. If the emission limit for any of the above pollutants (SO₂, NO_x, PM₁₀, and CO) is revised, the difference between the pollutant emission limit set forth above and the lower pollutant emission limit shall not be allowed as an emission offset for future construction or modification. [District Rule 2410] Federally Enforceable Through Title V Permit
66. Permittee shall maintain and operate a continuous monitoring system to measure stack gas NO_x, CO, SO₂, O₂ and Opacity in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specifications 1,2,3, and 4). [District Rules 2410 and 4001 and 40 CFR Part 64,] Federally Enforceable Through Title V Permit
67. Permittee shall maintain and operate a continuous monitoring system to measure stack gas volumetric flow rates in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR Part 60, Appendix B, Performance Specification 6). [District Rule 2410] 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.

68. Permittee shall submit a written report of all excess emissions to the SJVAPCD for every calendar quarter. The report shall include the following: a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. b) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns, and malfunctions of any of the boilers. The nature and cause of any malfunction (if known) and the corrective action take or preventative measures adopted shall also be reported. c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report. [District Rule 2410] Federally Enforceable Through Title V Permit
69. Excess emissions shall be defined as any period greater than three minutes during which the average opacity as measured by the continuous monitoring system exceeds the maximum emission limit. [District Rule 2410] Federally Enforceable Through Title V Permit
70. Permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [District Rule 2410] Federally Enforceable Through Title V Permit
71. Biomass fuel sulfur shall not exceed 0.90% dry weight and biomass fuel nitrogen shall not exceed 2.5% dry weight. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
72. Biomass means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips and discarded wood, including clean, chipped wood products, plywood, particle board, fiberboard and wood products manufacturing items, wood based construction demolition materials, pallets, crates and boxes. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal solid waste. [District Rules 2201, 2410, and 4102] Federally Enforceable Through Title V Permit
73. Additional biomass fuels may be administratively appended to this list upon a written request by the permittee to add an unlisted fuel, and provided the permittee can demonstrate that emissions of affected pollutants will not increase and that the boiler is designed to accommodate such fuel without physical or operational modifications. [District Rule 2410] Federally Enforceable Through Title V Permit
74. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal waste. In addition, contamination of the biomass fuel shall not exceed 0.04% by weight plastics and 0.62% by weight of metals, plastics, paper, painted wood, preservative treated wood and nonwood roofing materials (except asbestos). [District Rules 2410 and 4102] Federally Enforceable Through Title V Permit
75. The boiler shall not consume more than 142,857.1 scf/hr of natural gas with a higher heating value of 1,050 Btu/scf through the inbed and overbed burners. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
76. The boiler shall not consume more than 14,285.7 scf/hr of natural gas with a higher heating value (HHV) of 1,050 Btu/scf through the startup burner. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
77. The startup burner shall only be used for startup purposes. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
78. The total heat input into the boiler shall not exceed 315 MMBtu/hr (HHV) when firing with both biomass and natural gas. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
79. Boiler shall meet all applicable requirements of 40 CFR 60 Subparts A and Db. [District Rules 2410 and 4001] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

80. All correspondence as required by this Operating Permit shall be forwarded to the following addresses: 1) Chief, Stationary Source Division, California Air Resources Board, PO Box 2815, Sacramento, CA 95812; 2) SJVUAPCD Compliance Department, 34946 Flyover Court, Bakersfield, CA 93308. [District Rule 2410] Federally Enforceable Through Title V Permit
81. The owner/operator shall operate, maintain and calibrate Continuous Emission Monitoring system pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F. [District Rule 4352 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
82. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.3 (as amended 12/15/11), or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
83. The compliance determination shall not be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
84. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
85. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
86. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
87. 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
88. 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
89. During each day of operation, the permittee shall record the pressure drop of the fabric filter, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
90. Upon detecting any excursion from the 20% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit
91. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
92. Particulate Matter emissions from the combustion contaminants derived from the fuel shall not exceed 10.0 lb/hr. [District Rule 4301] Federally Enforceable Through Title V Permit
93. Records of startup and shutdown times and startup and shutdown emissions shall be maintained [District Rule 2201] Federally Enforceable Through Title V Permit
94. Permittee shall comply with the requirements of 40 CFR 63 Part DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
95. HCl emissions from this unit shall not exceed 0.022 lb/MMBtu except during periods of startup and shutdown. HCl emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] 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.

96. Mercury emissions from this unit shall not exceed 0.0000057 lb/MMBtu except during periods of startup and shutdown. Mercury emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
97. CO emissions shall not exceed 310 ppmvd @ 3% O₂ on a 30-day rolling CEMS average (as defined in Subpart DDDDD § 63.7575) except during periods of startup and shutdown. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
98. Filterable PM shall not exceed 0.11 lb/MMBtu except during periods of startup and shutdown, or total selected metals (TSM) as defined in 40 CFR 63 Subpart DDDDD shall not exceed 0.0012 lb/MMBtu except during periods of startup and shutdown. Filterable PM or TSM emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
99. By January 31, 2016, and annually thereafter, the permittee shall perform a tune-up of the boiler as specified in 40 CFR 63.7540. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
100. By January 31, 2016, permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment that has been completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes this unit also satisfies this requirement. The energy assessment must include the following items with extent of the evaluation for items a through e appropriate for the on-site technical hours listed in 40 CFR 63.7575: a) A visual inspection of the boiler or process heater system; b) An evaluation of operating characteristics of the boiler, specification of energy using systems, operating and maintenance procedures, and unusual operating constraints; c) An inventory of major energy use systems consuming energy from the boiler and which are under the control of the boiler owner/operator; d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified; f) A list of cost effective energy conservation measures that are within the facility's control; g) A list of energy savings potential of the energy conservation measures identified; and h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those improvements. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
101. Permittee shall operate all continuous monitoring systems during startup and shutdown of the boiler. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
102. Permittee shall comply with all applicable emissions limits at all times except for startup or shutdown periods conforming with this work practice. Permittee shall collect monitoring data during periods of startup and shutdown, as specified in §63.7535(b). Permittee shall keep records during periods of startup and shutdown and shall provide reports concerning activities and periods of startup and shutdown, as specified in §63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
103. Permittee shall vent emissions to the main stack(s) upon firing the unit on biomass and shall engage all of the applicable control devices except limestone injection in fluidized bed combustion boilers, fabric filter, and selective non-catalytic reduction. Those systems shall be started as expeditiously as possible. Permittee shall collect monitoring data during periods of startup as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of startup. Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
104. Opacity from the boiler shall not exceed 10% on a daily block average. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
105. Permittee shall maintain the 30-day rolling average sorbent (limestone, bicarbonate) or carbon injection rate at or above the minimum sorbent or carbon injection rate as defined in §63.7575 of 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] 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.

106. Permittee shall ensure that the flow of injected sorbent (limestone, bicarbonate) or carbon is not interrupted by operating an opacity meter, triboelectric monitoring system, or other system (approved by the District in writing) that alerts the permittee that an absence of flow of sorbent or carbon is present. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
107. For boilers that demonstrate compliance with a performance test, the permittee shall maintain the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
108. Filterable PM, TSM, HCl, and mercury emissions shall be source tested using the methods and procedures specified in Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
109. Reports required by 40 CFR 63 Subpart DDDDD shall be submitted electronically or by hard copy to EPA as described in 40 CFR 63.7550 and to SJVAPCD. [40 CFR Part 63 Subpart DDDDD] 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: S-75-12-7

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

5,236 GALLON LIMESTONE RECEIVING & STORAGE SILO (UNIT #2) INCLUDING VIBRATING BIN BOTTOM, PNEUMATIC CONVEYING SYSTEM WITH 25 HP MOTOR AND 162 SQUARE FOOT BIN VENT FILTER WITH 1 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM

PERMIT UNIT REQUIREMENTS

1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent only through bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filter shall have a maximum air to cloth ratio of 5 ft/min and a minimum filter area of 162 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Bin vent filter shall be equipped with an operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Only crushed limestone shall be handled. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
12. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Silo shall not operate more than 7 hours/day. [District Rule 2201] Federally Enforceable Through Title V Permit
14. An individual trained to perform EPA Method 22 visible emission observations shall perform a daily inspection of the facility. Daily inspections shall take place at an appropriate time each day depending on plant start time and sunrise. The duration of Method 22 observations shall not be less than 15 minutes. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Permittee shall keep records of amounts and size of limestone received and make such records readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Records of dust collector maintenance, hours of operation, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
20. Operator shall record the daily hours of operation for this unit. [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: S-75-13-7

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

45,886 GALLON SAND STORAGE SILO (UNIT #2) INCLUDING PNEUMATIC CONVEYING SYSTEM AND BIN VENT FILTER WITH 162 SQUARE FEET OF FILTERING AREA, 1.0 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM

PERMIT UNIT REQUIREMENTS

1. While dormant, the feed line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent only through bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filter shall have a maximum air to cloth ratio of 5 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Bin vent filter shall have a minimum filter area of 162 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Bin vent filter shall be equipped with an operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
12. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Silo shall not operate more than 7 hours/day. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. An individual trained to perform EPA Method 22 visible emission observations shall perform a daily inspection of the facility. Daily inspections shall take place at an appropriate time each day depending on plant start time and sunrise. The duration of Method 22 observations shall not be less than 15 minutes. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
15. Permittee shall keep records of amounts and size of sand received and make such records readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Records of dust collector maintenance, hours of operation, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
20. Operator shall record the daily hours of operation for this unit. [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: S-75-16-4

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

244 BHP (INTERMITTENT) CUMMINS MODEL 6BTA 5.9 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE
POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District Rule 2201] Federally Enforceable Through Title V Permit
2. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [Kern County Rule 407, District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
3. 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
4. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. 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
11. 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
12. 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
13. 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
14. 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
15. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. 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, 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
17. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520 and 17 CCR 93115] Federally Enforceable Through Title V Permit
18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 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: S-75-17-4

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

830 BHP (INTERMITTENT) DETROIT MODEL 8123 7405 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. 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, 5.7.2 and CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [Kern County Rule 407, District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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
7. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. 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
17. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. 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, 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
19. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520 and 17 CCR 93115] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 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: S-75-18-4

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

1,106 BHP (INTERMITTENT) CATERPILLAR MODEL 7C1299 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY
STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. 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 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [Kern County Rule 407, District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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
7. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. 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
17. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. 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, 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
19. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520 and 17 CCR 93115] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 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: S-75-19-6

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

UNIT ONE: 28,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING FOUR 2-SPEED FAN MOTORS AND TWO MAIN CIRCULATION WATER PUMPS

PERMIT UNIT REQUIREMENTS

1. While dormant, the make-up water and water fill line will have a blank flange installed and the blank flange will be locked. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. No hexavalent chromium containing compounds shall be added to cooling tower circulation water. [District Rule 7012]
8. Total electric motor horsepower for this cooling tower shall not exceed 1440 HP. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-75-20-6

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

UNIT TWO: 18,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING TWO 2-SPEED FAN MOTORS, TWO MAIN CIRCULATION WATER PUMPS, AND TWO COMPONENT COOLING WATER CIRCULATION PUMPS

PERMIT UNIT REQUIREMENTS

1. While dormant, the make-up water and water fill line will have a blank flange installed and the blank flange will be locked. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. No hexavalent chromium containing compounds shall be added to cooling tower circulation water. [District Rule 7012]
8. Total electric motor horsepower for this cooling tower shall not exceed 1200 HP. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-75-21-6

EXPIRATION DATE: 08/31/2022

SECTION: 25 **TOWNSHIP:** 25 **RANGE:** 25

EQUIPMENT DESCRIPTION:

EMERGENCY FUEL FEED SYSTEM INCLUDING 12'X5'X8' FUEL RECEIVING HOPPER SERVING UNITS 1 & 2, 48' SCREW CONVEYOR, AND WATER/SURFACTANT SPRAYS AT HOPPER RIM AND MATERIAL TRANSFER POINTS FROM SCREW CONVEYOR TO BELT CONVEYORS BC-8 AND BC-15

PERMIT UNIT REQUIREMENTS

1. While dormant, no fuel deliveries will be allowed by contract and the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Operation shall be equipped with 12' by 5' by 8' receiving hopper, 48' long screw conveyor, and water/surfactant sprays at hopper rim and material transfer points from screw conveyor to belt conveyors BC-8 and BC-15. [District Rule 2201] Federally Enforceable Through Title V Permit
8. There shall be no visible emissions of 5% opacity or greater from loading of the hopper and material transfer points. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fabric collector #1 shall be operated whenever material is being transferred from emergency fuel system. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Water/surfactant sprays shall be in operation whenever emergency fuel system is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Emergency fuel system throughput shall not exceed 35 tons/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Permittee shall maintain records of emergency fuel system throughput and shall make such records readily available for District inspection upon request. [District Rules 2201 and Rule 2520] 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. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
14. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
15. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
16. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permits

San Joaquin Valley Air Pollution Control District

FACILITY: S-75-0-3

EXPIRATION DATE: 08/31/2022

FACILITY-WIDE REQUIREMENTS

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CES DELANO BECCS PLANT

Location: 31500 POND RD, DELANO, CA 93215

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 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
40. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2, or 3 when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit
41. Facility shall comply with California Health and Safety Code Sections 44300 through 44384. [District Rule 4102 and California Health and Safety Code]
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. All roads and roadways used by equipment associated with operation of boiler shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Particulate matter collected by fabric collectors shall be accumulated in closed containers and disposed of in a manner preventing entrainment in atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
45. Each fabric collector exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods pursuant to Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
46. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
47. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
48. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-75-1-13

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECEIVING, SCREENING & CONVEYING OPERATION #1 INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 175 TON/HR FUEL TRANSFER CONVEYOR #1 WITH BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-1 TO DS-1, BC-9 TO BC-2, HOG-1 TO BC-2; STATION #2 SERVES POINTS BC-3 & BC-5), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #1, AND 3 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, the limestone feed lines to permit units S-75-1-12 and '5-11 shall be physically disconnected. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Operation shall include ventilation system and fabric collector #2, with a minimum of 5,002 sq.ft. filter area and 100 hp exhaust fan, serving truck tippers, fuel receiving hoppers and inlets to the fuel transfer conveyor #1. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fabric collector #2 shall include 5 hp blower motor, rotary valve and auger. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Operation shall include belt type magnetic separator and magnetic separator take away conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Operation shall include disk type scalping screen and swing hammer type hog, both with water dust suppression and both vented to fabric collector #4. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Operation shall include ventilation system and fabric collector #4, with minimum of 3,674 sq. ft. filter area and 60 hp exhaust fan (shared with S-75-5), serving disk type scalping screen, swing hammer type hog, and discharge of fuel transfer conveyor #1. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Fabric collector #4 shall include 3 hp blower motor, rotary valve and auger. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Operation shall include 186 ton/hr capacity hog outfeed conveyor #2 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Operation shall include 186 ton/hr capacity fixed stacker conveyor #3 with operational water dust suppression, two position diverter gate, and telescopic spout with dust pick-up shroud. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Operation shall include 186 ton/hr capacity stacker infeed conveyor #4, and 186 ton/hr capacity radial stacker conveyor #5 with telescopic spout with dust pickup. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Operation shall include ventilation system with fabric collector #3 serving equipment associated with the 186 ton/hour hog, fixed stacker and infeed conveyor listed above (fixed stacker conveyor #3, diverter gate, telescopic spout, stacker infeed conveyor #4, radial stacker conveyor #5 and the head of hog outfeed conveyor #2), with a minimum of 3,263 sq.ft. filter area and 125 hp exhaust fan. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fabric collector #3 shall include 3 hp blower motor, rotary valve and auger. [District Rule 2201] Federally Enforceable Through Title V Permit
18. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper ventilation pickup points. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Truck tipper receiving hopper ventilation hood and hog ventilation hoods shall provide minimum indraft velocity of 200 ft/min during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Truck tipper receiving hopper drag chain conveyor transfer point hood shall provide minimum indraft velocity of 150 ft/min during entire truck unloading and fuel transfer to take away belt conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Truck tipper area ventilation system shall be equipped with interlocks and isolation valves which directs all air flow through operating truck tipper and prevents simultaneous operation of truck tippers. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft of belt width during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Scalping screen ventilation hood(s) shall provide minimum indraft velocity of 50 ft/min during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Truck tipper fabric collector #2 shall have minimum filter area of 5,002 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Scalping screen/hog area ventilation system shall be equipped with isolation valve which prevents air flow from primary screen and hog when this equipment is not in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Scalping screen/hog area fabric collector #4 shall have minimum filter area of 3,674 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Stacker/reclaimer area fabric collector #3 shall have minimum filter area of 3,263 sq. ft. and maximum air-to-cloth ratio of 8.2 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism and operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
29. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] 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.

30. Material removed from the fabric collectors shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Particulate matter collected by fabric collectors shall be stored in closed containers when such material is not actively being returned to the boiler via permitted conveying equipment. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Variable height radial stacker, auxiliary stacker and reclaimers shall be ventilated to fabric collector, and discharge from stacker spouts shall be maintained as close as possible to top of storage pile. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Radial and auxiliary stacker conveyors BC3 and BC5 shall be equipped with water injection nozzles which shall be operated as needed, to ensure dust emissions have visible emissions less than or equal to 20% opacity. [District Rule 2201] Federally Enforceable Through Title V Permit
34. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,200 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Deliveries of fuel shall not exceed 144 truck loads per day. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Drag chain transfer, point hood ventilation system and fabric collector shall operate whenever material is being transferred out of receiving bin. [District Rule 2201] Federally Enforceable Through Title V Permit
37. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Truck tipper receiving hopper, ventilation hood system and fabric collector #2 shall be operated whenever material is being transferred into the hopper. [District Rule 2201] Federally Enforceable Through Title V Permit
39. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and hog enclosures, including inlet and outlet openings. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Scalping screen/hog area fabric collector #4 shall be operated whenever material is being transferred from fuel receiving operations or storage pile to boiler. [District Rule 2201] Federally Enforceable Through Title V Permit
41. Stacker/reclaimer area fabric collector #3 shall be operated whenever material is being transferred to or from storage piles. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Auxiliary stacker shall not operate when radial stacker is in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Fuel transfer conveyor shall be fully enclosed and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Radial stacker telescoping discharge spout height shall be continuously adjusted to minimize material drop distance to pile. [District Rule 2201] Federally Enforceable Through Title V Permit
45. Material to stacker shall contain no more than 3% by weight of fines capable of passing through 200 mesh screen. [District Rule 2201] Federally Enforceable Through Title V Permit
46. Any stored fuel which is burning shall be immediately segregated and extinguished. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
47. Records of types, amounts and origins (including distance from facility, copies of all purchase contracts, # of trucks, etc.) of offset fuels received shall be maintained and made readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
48. Air flow to fabric collector #2 shall not exceed 40,000 cfm and Particulate (PM-10) emissions from fabric filter #2 shall not exceed 0.0045 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

49. Air flow to fabric collectors 3 and 4 shall not exceed 20,000 and 30,000 cfm respectively, and Particulate (PM-10) emissions from fabric collectors shall not exceed 0.004 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Fugitive particulate (PM-10) emissions from fuel storage piles shall not exceed 1.32 lb PM-10/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Wood waste delivery trucks shall remain covered during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
52. Operator shall record the daily number of fuel delivery truck loads. [District Rule 2520] Federally Enforceable Through Title V Permit
53. Operator shall record percentage of fines (passing #200 screen) in the material to the stacker. [District Rule 2520] Federally Enforceable Through Title V Permit
54. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
55. Visible emissions from truck tipper receiving hopper ventilation pickup points, conveyor transfer points, scalping screens, and hog enclosures (including inlet and outlet openings) shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
56. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
57. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
58. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
59. 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
60. 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
61. During each day of operation, the permittee shall record the pressure drop of the fabric filters, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
62. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-3-8

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

4,400 GALLON LIMESTONE STORAGE SILO (UNIT #1), WITH VAPOR SPACE TIED IN COMMON WITH SAND SILO PTO 75-4, INCLUDING BIN VENT FILTER WITH 95 SQUARE FOOT FILTER AREA, 1 HP EXHAUST FAN, 1/4 HP BAG SHAKER MOTOR, AND PRODUCT CONVEYING BLOWER

PERMIT UNIT REQUIREMENTS

1. While dormant, the feed line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent through bin vent filters located on limestone storage silo S-75-3 and sand storage silo S-75-4. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filters located on PTO S-75-3 and S-75-4 shall both be in operation and utilized when silo is being filled. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Limestone bin vent filter shall have a maximum air to cloth ratio of 8.54 ft./min and minimum filter area of 95 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Bin vent filter shall be equipped with mechanical shaker mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Bin vent filter shall be equipped with operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Only crushed limestone shall be handled. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
14. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Silo shall not receive more than 25 tons/day of product and particulate matter (PM10) emissions shall not exceed 0.024 lbs/ton loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Permittee shall keep records of amounts and size of limestone received and make such records readily available for District inspection upon request. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
17. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Permittee shall perform a complete vent filter inspection on an annual basis. Dust collector filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter breakthrough and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
20. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-4-8

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

65,828 GALLON SAND STORAGE (UNIT # 1) SILO, WITH VAPOR SPACE TIED COMMON WITH LIMESTONE SILO PTO S-75-3, INCLUDING BIN VENT FILTER WITH 120 SQ.FT. FILTER AREA, 1 HP EXHAUST FAN AND 1/4 HP BAG SHAKER MOTOR

PERMIT UNIT REQUIREMENTS

1. While dormant, the feed line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent through bin vent filters located on limestone storage silo S-75-3 and sand storage silo S-75-4. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filters located on PTO S-75-3 and S-75-4 shall both be in operation and utilized when silo is being filled. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Sand storage silo bin vent filter shall have a maximum air to cloth ratio of 8 ft./min and minimum filter area of 120 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Bin vent filter shall be equipped with mechanical shaker mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Bin vent filter shall be equipped with operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
13. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Silo shall not receive more than 25 tons/day of product and particulate matter emissions (PM10) shall not exceed 0.024 lbs/ton loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Permittee shall keep records of amounts and size of limestone received for a period of five years and make such records readily available for District inspection upon request. [District Rule 2201 and 2520] Federally Enforceable Through Title V Permit
16. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Permittee shall perform a complete vent filter inspection on an annual basis. Dust collector filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter breakthrough and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-5-12

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECLAMATION, CONVEYING AND SCREENING OPERATION INCLUDING 45 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER WITH WATER SPRAY SYSTEM, RECLAIMER FEED TABLE, RECLAIMER CONVEYOR #6, AND AUXILIARY FUEL RECLAIM HOPPER (PHASE I) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-9 TO BC-2, BC-10, DS-2 TO BC-8; STATION #2 SERVES TRANSFER POINTS BC-6 TO BC-7, DC-3 TO BC-7), AND 3 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, the limestone feed lines to permit units S-75-1-12 and '5-11 shall be physically disconnected. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Operation shall include secondary feed conveyor #7 with belt scale, belt type magnetic separators, secondary disk type scalping screen, boiler feed conveyor #8, oversize conveyor #10 and distribution drag conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Operation shall include fuel abort bunker. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Operation shall include overfeed return conveyor #9. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Operation shall include fabric collector #3 (125 hp fan and 3,263 sq. ft. minimum filtering area) serving transfer point from reclaimer feed table, auxiliary fuel reclaim hopper inlet, and reclaim conveyor #6 shared with S-75-1. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Operation shall include fabric collector #1 (25 hp fan and 750 sq. ft. minimum filtering area) serving head of boiler feed conveyor #8, inlet to secondary disk scalping screen and fuel abort bunker. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. Operation shall include fabric collector #4 (100 hp fan and 3,674 sq. ft. min. filter area) serving discharge from conveyor #7, belt separator, inlet to fixed separator, discharge from secondary disk scalping screen, and MAC 95 cyclone #1, shared with permit S-75-1. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Material removed from each fabric collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Material collected by MAC 95 cyclone #1 shall discharge to conveyor BC-8, or to the covered truck loadout via a screw conveyor equipped with operational water sprays at the discharge point. [District Rule 2201] Federally Enforceable Through Title V Permit
15. There shall be no emissions in excess of 5% opacity from storage pile during reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
16. There shall be no emissions in excess of 5% opacity from conveyor transfer points, scalping screen, fuel storage bin inlet and outlet. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fabric collector #4 shall be operated whenever material is being transferred from fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Fabric collector #1 shall be operated whenever material is being transferred from fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Fuel transfer conveyors shall be fully enclosed and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Conveyor belt ventilation hoods shall be designed to provide a minimum indraft velocity of 500 cfm/ft of belt width during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Fabric collector #1 shall have a minimum filtering area of 750 sq. ft. and a air to cloth ratio of 8 ft./min. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Each fabric collector shall be equipped with automatic, adjustable, reverse pulse filter cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Each fabric collector shall be equipped with operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
24. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
25. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,200 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
26. All access roads and roadways associated with fuel reclamation operation shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall keep accurate records of material conveyed to fuel storage bin and make such records readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Fugitive PM10 emissions from the covered truck loading operation shall not exceed 0.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The maximum emission rate of PM-10 from fabric collector #1 shall not exceed 0.21 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Particulate matter emissions from the fabric filter dust collectors listed on this permit shall not exceed 0.004 grains/dscf in concentration. [District Rules 2201 and 4201] 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.

31. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
33. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
34. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
35. 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
36. 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
37. During each day of operation, the permittee shall record the pressure drop of the fabric filters, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
38. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-6-33

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

400 MMBTU/HR (32 MW) EPI FLUIDIZED BED, BIOMASS-FUELED BOILER (UNIT #1) WITH NH₃, LIMESTONE, SODIUM BICARBONATE, AND SAND INJECTION, WITH BOILER EXHAUST VENTED TO FABRIC FILTER; AND FOUR 10 MMBTU/HR PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS

PERMIT UNIT REQUIREMENTS

1. While dormant, a blank flange will be installed on the natural gas line and the flange will be locked; no fuel deliveries will be allowed by contract; the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. A source test to demonstrate compliance with the NO_x and CO emission limits shall be performed within 60 days of recommencing operation of the dormant emissions unit. [District Rule 4306] Federally Enforceable Through Title V Permit
8. 15 MMBtu/hr natural gas-fired boiler start-up burner shall be of "low-NO_x" design utilizing staged combustion principles. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Boiler shall be equipped with two model ABB steam turbines powering a 32 MW (gross) electrical generator. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Boiler shall be equipped with a sodium bicarbonate (NaHCO₃) injection system. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Boiler shall be equipped with sand supply/reinjection system including bucket elevator #1 discharging to boiler or sand silo with bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Boiler shall be equipped with fluidized bed cleanout vibrating screen, enclosed bucket elevator #2, enclosed magnetic separator and enclosed circulating vibrating screen - with all enclosed equipment vented to boiler fuel inlet chute. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Boiler shall be equipped with eight compartment fabric collector with a minimum filter area of 46,445 sq. ft and a maximum air-to-cloth ratio of 4 ft./min. Boiler shall be equipped with induced draft air fan with 1250 hp motor. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Each compartment of fabric collector shall be equipped with an operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [40 CFR Part 64 and District Rule 2201] Federally Enforceable Through Title V Permit
15. The fabric collector shall operate at all times with a minimum differential pressure of 4 inches water column and a maximum differential pressure of 12 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
16. Combustion air supply lines and auxiliary burner natural gas supply line shall be equipped with operational volumetric flow-rate indicators. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Selective non-catalytic reduction ammonia injection system shall be equipped with operational ammonia volume flow-rate indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Fabric collector exhaust stack shall be equipped with recording continuous monitors for opacity, SO₂, NO₂, CO, O₂, and flue gas volume flow-rate per Rule 1081. [District Rules 1081 and 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
19. Only PUC quality natural gas, biomass, sand, limestone, ammonia, air, sodium bicarbonate (NaHCO₃), and on-site generated dewatered cooling tower sludge shall be introduced into boiler. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
20. Wood fuel includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
21. Natural gas used as fuel shall not exceed 5,691,429 std. cu. ft. per day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Removal of ash from ash hoppers by manual means shall only be conducted during breakdown conditions or when boiler is not operating, and there shall be no visible emissions for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or 20 % opacity. [District Rules 4101 and 4102] Federally Enforceable Through Title V Permit
23. Limestone, sodium bicarbonate (NaHCO₃) and/or onsite generated cooling tower sludge, shall be injected into boiler at a rate in pounds per ton of biomass fuel introduced into boiler which results in compliance with the SO_x emission limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Ammonia shall be injected into boiler at a rate, in pounds per ton of biomass fuel introduced into boiler, which results in compliance with the NO_x emission limitation. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Ammonia injection shall be accomplished in the temperature range of 1600 to 1900 deg. F. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Ammonia injection rate shall be controlled to prevent the emission of free ammonia in excess of 20 ppmv or such level as required to prevent detectable odors or a maximum concentration of 50 ppmv at ground level. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
27. NO_x and PM₁₀ emission data shall be obtained and provided, as required by NSPS 40CFR60.48b "Emissions monitoring for particulate and nitrogen oxides." CEM data shall be provided as required by 60.48b(f). [District Rule 4001 and 40 CFR 60 Subpart Db] Federally Enforceable Through Title V Permit
28. Particulate matter (PM₁₀) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.010 gr/dscf @ 12% CO₂ (of filterable particulate) and 15.98 lb/hr (including condensable particulate). [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

29. Sulfur compound emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 18.8 ppmvd @ 3% O₂ and 13.2 lb/hr (as SO₂). [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
30. Oxides of nitrogen emissions (as NO₂), except for periods of startup and shutdown as defined in this permit, shall not exceed 0.10 lb/MMBtu and 40.00 lb/hr. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
31. Volatile Organic Compound (VOC) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.02 lb/MMBTU and 8.0 lb/hr. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
32. Carbon Monoxide (CO) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 181 ppmvd @ 3% O₂ and 56.00 lb/hr. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 500 lb/hr in any single hour during the startup or shutdown. [District Rules 2201, 2410, and 4352] Federally Enforceable Through Title V Permit
33. Boiler emission rates shall not exceed any of the following: PM₁₀: 383.5 lb/day, SO_x (as SO₂): 316.8 lb/day, NO_x (as NO₂): 960.0 lb/day, VOC: 192.0 lb/day or CO (except during days of refractory cure or on days with startup and shut operations): 1344.0 lb/day. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 3,500 lb/day. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
34. On days of refractory cure using startup burner, CO emissions shall not exceed 7,680 lb/day and heat input to boiler shall not exceed 3,909.4 MMBtu/day. Compliance with CO emission limit on each refractory cure day shall be demonstrated by records of fuel use, fuel heat content, and resulting daily heat rate input. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
35. On days of refractory cure using 40 MMBtu/hr refractory cure heaters, heat input shall not exceed 960 MMBtu/day to the refractory cure heaters. Refractory burner emission rates shall not exceed any of the following: PM₁₀: 0.0076 lb/MMBtu, SO_x (as SO₂): 0.00285 lb/MMBtu, NO_x (as NO₂): 0.1 lb/MMBtu, VOC: 0.0055 lb/MMBtu or CO: 0.3 lb/MMBtu. Daily records of fuel use, fuel heat content, and resulting daily heat rate input shall be kept, to demonstrate compliance with emission limits during refractory curing. [District Rule 2201] Federally Enforceable Through Title V Permit
36. This boiler shall not be operated under refractory cure conditions for more than 6 days per year. Refractory cure shall not be performed on more than one unit (Boiler #1, S-75-6 or Boiler #2, S-75-11) at any time. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Permittee shall notify the District in writing of the start date and end date of operating under refractory cure and alternate CO emission limit condition. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Excess emissions for NO_x, SO_x, SO₂, and CO for the continuous monitoring system shall be defined as any 24 hour period during which the average emissions of NO_x, SO_x or CO exceed any emission limit, except as noted in this permit on days of refractory cure or on day(s) in which a startup or shutdown of this unit occurs. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
39. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
40. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
41. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 & 75%. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
42. "Steady state" load is defined as the operational conditions that generate electrical power at + or - one (1) Megawatt from the target load established and documented by control room log book. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

43. During startup and shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
44. Annual audits of continuous monitors shall be conducted by independent laboratory in accordance with E.P.A. guidelines, shall be witnessed by District and results shall be submitted to District within 60 days of such audit pursuant to Rule 1080. [District Rule 1080] Federally Enforceable Through Title V Permit
45. Compliance with biomass fuel contamination limits shall be demonstrated by sorting a District approved 25 ton representative sample of biomass fuel in the reclaim pile upon District request. [District Rule 4102]
46. Data collected during sorting of 25 ton sample of biomass fuel shall be in pounds of material per ton of biomass, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102]
47. Compliance with PM₁₀, SO_x, NO_x and CO emission sampling limits (except CO during designated refractory cure days) shall be demonstrated by District-witnessed sample collection by independent testing laboratory annually, or within 60 days of startup if the unit had been shutdown. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
48. Source testing for the following parameters shall be conducted using the stated test methods: NO_x - EPA Method 7 or ARB Method 100; CO - EPA Method 10 or ARB Method 100; CO₂ - EPA Method 3 or ARB Method 100; O₂ - EPA Method 3 or 3A, or ARB Method 100; SO₂ - EPA Method 6 or ARB Method 100; PM₁₀ - EPA Method 5 or 201A & 202; NO_x emission rate (Heat input basis) - EPA method 19; Stack Gas Velocities - EPA Method 2; Moisture Content - EPA Method 4; Ammonia - BAAQMD ST1B and Solid Fuel Higher Heating Value - ASTM Method D2015 or E711. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
49. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
50. Permittee shall annually offset actual emissions of the following pollutant emission rates in pounds per year: PM₁₀, 219,037; SO₂, 143,883 (PM impact only); NO_x 238,527; VOC 54,750; CO, 614,186 through the elimination of sufficient annual tonnage of agricultural waste diverted from open burning. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Permittee shall project and use the proper mix of fuels to ensure that actual emissions from boiler S-75-6 are offset with creditable biomass on a quarterly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
52. Open-burning emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning are listed in the attachment "Open Burn Emission Factors" (District policy SSP-2005). [District Rule 2201] Federally Enforceable Through Title V Permit
53. If quarterly actual emissions from boiler S-75-11 are greater than zero, the emission reduction credit from creditable biomass fuel shall be calculated using the following formula: $P_q = x * [\sum_{j=1}^n (B_j) * (EF_j) * (HBF_j) * (QDF_{jq})]$ where: P_q = Pollutant offset credit in lb/qtr = sum of emissions (by pollutant) from ag waste credit < 15 miles + emissions > 15 miles from facility. q = calendar quarter, $x = 0.5$ for biomass originating > 15 miles and 0.833 for < 15 miles. j = each creditable biomass type. B = tons of biomass type (j) used per quarter. EF = emission factor for particular biomass (from SSP-2005). HBF_j = fraction of biomass type (j) that has been demonstrated to have historically open field burned (for orchard prunings $HBF=0.96$, for other biomass a District approved HBF factor must be used). QDF_{jq} = Quarterly distribution factor - fraction of burning of biomass (j) which occurs in calendar quarter (q). For orchard prunings $QDF = Q1: 0.251, Q2: 0.275, Q3: 0.149, Q4: 0.325$. [District Rule 2201] Federally Enforceable Through Title V Permit
54. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 1080 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

55. Daily records for each load of creditable biomass received shall be maintained which include the geographic origin (for applicability of distance offset ratio), date, weigh ticket number, supplier name, fuel type, tons received, the offset ratio for the load of biomass, and the amount of offset credit (in pounds of NO_x) attributable to each load of biomass. Records shall include certifications that any creditable biomass for which offset credit is claimed has historically been open burned in the San Joaquin Valley air basin. [District Rule 2201] Federally Enforceable Through Title V Permit
56. Permittee shall demonstrate compliance with the emission offset requirements by submitting to the District a quarterly report accounting for the tonnage of agricultural waste eliminated from open field burning and used as plant fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
57. Quarterly report of agricultural waste eliminated from open field burning used as fuel at facility shall document creditable ag waste fuel receipt quantities, if fuel originates > 15 miles from facility, offset credit ratios, emission factors used, and summary of the resultant emissions offsets provided using "the procedure", and shall be submitted to the District within 30 days of the end of the quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
58. Quarterly report, of agricultural waste eliminated from open field burning used for the purpose of providing required offsets, shall document historical biomass fraction (HBF) and quarterly distribution factor (QDF) for each biomass fuel used to calculate credit. For orchard prunings HBF = 0.96 and QDF = as stated in this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
59. All equipment, facilities, and systems shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [District Rule 2410] Federally Enforceable Through Title V Permit
60. The SJVAPCD shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit. In addition, the SJVAPCD shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of the permit or of any law or regulations which such malfunction may cause. [District Rule 2410] Federally Enforceable Through Title V Permit
61. In the event of any changes in control or ownership, this permit shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, a copy of which shall be forwarded to the State, CARB, and the SJVAPCD. [District Rule 2410] Federally Enforceable Through Title V Permit
62. The provisions of this permit are severable, and, if any provisions of this permit is held invalid, the remainder of this permit shall not be affected thereby. [District Rule 2410] Federally Enforceable Through Title V Permit
63. The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable federal, state and local air quality regulations. [District Rule 2410] Federally Enforceable Through Title V Permit
64. For performance test purposes, sampling ports, platforms, and access shall be provided on the combustion exhaust system in accordance with 40 CFR 60.8(e). [District Rule 1081] Federally Enforceable Through Title V Permit
65. Permittee shall continuously record the steam output and the steam temperature and pressure from the boiler; also, permittee shall determine the boiler efficiency annually. The heat input, as determined from the boiler efficiency and steam production rate, shall not exceed 400 MMBtu/hr. [District Rule 2410] Federally Enforceable Through Title V Permit
66. If the emission limit for any of the above pollutants (SO₂, NO_x, PM₁₀, and CO) is revised, the difference between the pollutant emission limit set forth above and the lower pollutant emission limit shall not be allowed as an emission offset for future construction or modification. [District Rule 2410] 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.

67. Permittee shall maintain and operate a continuous monitoring system to measure stack gas NO_x, CO, SO₂, O₂ and Opacity in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specifications 1,2,3,and 4). [District Rules 2410 and 4001 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
68. Permittee shall maintain and operate a continuous monitoring system to measure stack gas volumetric flow rates in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR Part 60, Appendix B, Performance Specification 6). [District Rule 2410] Federally Enforceable Through Title V Permit
69. Permittee shall submit a written report of all excess emissions to the SJVAPCD for every calendar quarter. The report shall include the following: a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. b) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns, and malfunctions of any of the boilers. The nature and cause of any malfunction (if known) and the corrective action take or preventative measures adopted shall also be reported. c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report. [District Rule 2410] Federally Enforceable Through Title V Permit
70. Excess emissions shall be defined as any period greater than three minutes during which the average opacity as measured by the continuous monitoring system exceeds the maximum emission limit. [District Rule 2410] Federally Enforceable Through Title V Permit
71. Permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [District Rule 2410] Federally Enforceable Through Title V Permit
72. Biomass fuel sulfur shall not exceed 0.90% dry weight and biomass fuel nitrogen shall not exceed 2.5% dry weight. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
73. Biomass means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips and discarded wood, including clean, chipped wood products, plywood, particle board, fiberboard and wood products manufacturing items, wood based construction demolition materials, pallets, crates and boxes. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal solid waste. [District Rules 2201, 2410, and 4102] Federally Enforceable Through Title V Permit
74. Additional biomass fuels may be administratively appended to this list upon a written request by the permittee to add an unlisted fuel, and provided the permittee can demonstrate that emissions of affected pollutants will not increase and that the boiler is designed to accommodate such fuel without physical or operational modifications. [District Rule 2410] Federally Enforceable Through Title V Permit
75. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal waste. In addition, contamination of the biomass fuel shall not exceed 0.04% by weight plastics and 0.62% by weight of metals, plastics, paper, painted wood, preservative treated wood and nonwood roofing materials (except asbestos). [District Rules 2410 and 4102] Federally Enforceable Through Title V Permit
76. Boiler shall not consume more than 14,285.7 scf/hr of natural gas with a higher heating value (HHV) of 1,050 Btu/scf. [District Rule 2410] Federally Enforceable Through Title V Permit
77. Boiler shall meet all applicable requirements of 40 CFR 60 Subparts A and Db. [District Rules 2410 and 4001] 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.

78. All correspondence as required by this Operating Permit shall be forwarded to the following addresses: 1) Chief, Stationary Source Division, California Air Resources Board, PO Box 2815, Sacramento, CA 95812; 2) SJVUAPCD Compliance Department, 34946 Flyover Court, Bakersfield, CA 93308. [District Rule 2410] Federally Enforceable Through Title V Permit
79. The owner/operator shall operate, maintain and calibrate Continuous Emission Monitoring system pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F. [District Rule 4352 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
80. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.3 (as amended 12/15/11), or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
81. The compliance determination shall not be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
82. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
83. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
84. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
85. 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
86. 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
87. During each day of operation, the permittee shall record the pressure drop of the fabric filter, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
88. Upon detecting any excursion from the 20% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit
89. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
90. Particulate matter emissions from the combustion contaminants derived from the fuel shall not exceed 10.0 lb/hr. [District Rule 4301] Federally Enforceable Through Title V Permit
91. Records of startup and shutdown times and startup and shutdown emissions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
92. Permittee shall comply with the requirements of 40 CFR 63 Part DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
93. HCl emissions from this unit shall not exceed 0.022 lb/MMBtu except during periods of startup and shutdown. HCl emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] 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.

94. Mercury emissions from this unit shall not exceed 0.0000057 lb/MMBtu except during periods of startup and shutdown. Mercury emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
95. CO emissions shall not exceed 310 ppmvd @ 3% O₂ on a 30-day rolling CEMS average (as defined in Subpart DDDDD § 63.7575) except during periods of startup and shutdown. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
96. Filterable PM shall not exceed 0.11 lb/MMBtu except during periods of startup and shutdown, or total selected metals (TSM) as defined in 40 CFR 63 Subpart DDDDD shall not exceed 0.0012 lb/MMBtu except during periods of startup and shutdown. Filterable PM or TSM emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
97. By January 31, 2016, and annually thereafter, the permittee shall perform a tune-up of the boiler as specified in 40 CFR 63.7540. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
98. By January 31, 2016, permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment that has been completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes this unit also satisfies this requirement. The energy assessment must include the following items with extent of the evaluation for items a through e appropriate for the on-site technical hours listed in 40 CFR 63.7575: a) A visual inspection of the boiler or process heater system; b) An evaluation of operating characteristics of the boiler, specification of energy using systems, operating and maintenance procedures, and unusual operating constraints; c) An inventory of major energy use systems consuming energy from the boiler and which are under the control of the boiler owner/operator; d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified; f) A list of cost effective energy conservation measures that are within the facility's control; g) A list of energy savings potential of the energy conservation measures identified; and h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those improvements. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
99. Permittee shall operate all continuous monitoring systems during startup and shutdown of the boiler. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
100. Permittee shall comply with all applicable emissions limits at all times except for startup or shutdown periods conforming with this work practice. Permittee shall collect monitoring data during periods of startup and shutdown, as specified in §63.7535(b). Permittee shall keep records during periods of startup and shutdown and shall provide reports concerning activities and periods of startup and shutdown, as specified in §63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
101. Permittee shall vent emissions to the main stack(s) upon firing the unit on biomass and shall engage all of the applicable control devices except limestone injection in fluidized bed combustion boilers, fabric filter, and selective non-catalytic reduction. Those systems shall be started as expeditiously as possible. Permittee shall collect monitoring data during periods of startup as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of startup. Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
102. Opacity from the boiler shall not exceed 10% on a daily block average. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
103. Permittee shall maintain the 30-day rolling average sorbent (limestone, bicarbonate) or carbon injection rate at or above the minimum sorbent or carbon injection rate as defined in §63.7575 of 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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104. Permittee shall ensure that the flow of injected sorbent (limestone, bicarbonate) or carbon is not interrupted by operating an opacity meter, triboelectric monitoring system, or other system (approved by the District in writing) that alerts the permittee that an absence of flow of sorbent or carbon is present. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
105. For boilers that demonstrate compliance with a performance test, the permittee shall maintain the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
106. Filterable PM, TSM, HCl, and mercury emissions shall be source tested using the methods and procedures specified in Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
107. Reports required by 40 CFR 63 Subpart DDDDD shall be submitted electronically or by hard copy to EPA as described in 40 CFR 63.7550 and to SJVAPCD. [40 CFR Part 63 Subpart DDDDD] 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: S-75-7-6

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

44,883 GALLON ASH STORAGE SILO WITH UNLOADING SPOUT, BOTH SERVED BY BIN VENT FILTER WITH 95 SQ.FT FILTER AREA AND 1/2 HP MOTOR - SILO RECEIVING MATERIAL FROM PHASE I AND PHASE II ASH HANDLING CONVEYOR

PERMIT UNIT REQUIREMENTS

1. While dormant, the boiler ash conveyor motors will be locked and maintained in the off position. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Phase I ash handling system shall include three boiler ash conveyors, eight baghouse rotary feeders, two baghouse conveyors, one main ash conveyor and one silo conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Phase II ash handling system shall include one boiler ash conveyors, six baghouse rotary feeders, two baghouse conveyors, one main ash conveyor and one silo conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Silo shall include vibrating bin, rotary feeder, bin vent filter and paddle type ash conditioner. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Ash shall not be removed from any ash hopper, conveying system or ash silo by manual means during normal operation. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Operation shall include telescoping ash unloading spout and 5 hp dust withdrawal fan discharging collected particulate back into ash silo served by bin vent. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Only material which has been mixed with sufficient water to prevent visible emissions, of 5% opacity or greater, shall be unloaded from ash silo unloading conditioner. [District Rule 2201] Federally Enforceable Through Title V Permit
14. There shall be no visible emissions of 5% opacity or greater from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Only covered truck shall be loaded with ash silo contents. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Storage silo shall vent only through bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Bin vent filter shall have a maximum air to cloth ratio of 5 ft./min, and minimum filter area of 95 sq. ft. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Bin vent filter shall be equipped with adjustable, automatic reverse pulse jet cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Bin vent filter shall be equipped with operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Ash silo unloading conditioning unit shall be dust tight. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Records of amounts of ash loaded into disposal trucks shall be maintained and made readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The maximum emission rate of volatile organic compounds shall not exceed 0.02 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Particulate matter emissions shall not exceed 0.010 grains/dscf in concentration. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
25. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
26. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
27. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-9-10

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECEIVING, SCREENING & CONVEYING OPERATION INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 100 TON/HR FUEL RECEIVING CONVEYOR #11 W/BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-11 TO DS-3, HOG-2 TO BC-13, BC-12; STATION #3 SERVES POINTS BC-16 & BC-17), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #3, AND AND 3 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, no fuel deliveries will be allowed by contract and the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Truck tipper platform, fuel receiving hopper, and fuel receiving conveyor shall vent only to fabric collector #5. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fuel receiving operation shall include belt type magnetic separator #3. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fuel receiving operation shall be equipped with ventilation system and fabric collector #5 with a minimum filter area of 4,875 sq. ft., maximum air-to-cloth ratio of 8:1, 100 hp exhaust fan, 5.0 hp reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Fuel receiving operation shall be equipped with disk type scalping screen and two position pneumatically operated diverter gate #5. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Fuel receiving operation shall be equipped with swing hammer type hog with metal trap. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Fuel receiving operation shall be equipped with 50 ton/hr capacity disk screen overs conveyor #12 with operational water dust suppression, 100 ton/hr capacity screen/hog discharge conveyor #13 with operational water dust suppression, and 135 ton/hr capacity fuel transfer conveyor #14. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Fuel receiving operation shall be equipped with ventilation systems and fabric collector #6 with a minimum filter area of 2,505 sq. ft., maximum air-to-cloth ratio of 8:1, 60 hp exhaust fan, 3.0 hp reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Fabric collector #6 shall serve disk type scalping screen, diverter gate #5, swing hammer type hog, disk screen overs conveyor #12, screen/hog discharge conveyor #13, and fuel transfer conveyor #14. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Fuel receiving operation shall be equipped with two position pneumatically operated diverter gates number 6 and number 7. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Fuel receiving operation shall be equipped with 135 ton/hr capacity fixed stacker feed conveyor #17 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fuel receiving operation fixed stacker shall be equipped with telescoping spout with dust pick-up shroud. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Fuel receiving operation shall be equipped with 170 ton/hr capacity radial stacker feed conveyor #15. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Fuel receiving operation shall be equipped with 170 ton/hr capacity radial stacker conveyor #16 with operational water dust suppression shared with permit unit S-75-10. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Fuel receiving operation radial stacker shall be equipped with telescoping spout with dust pick-up shroud. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Water injection nozzles on radial and fixed stacker conveyors BC16 and BC17 shall be operated as needed, to ensure dust emissions have visible emissions of less than or equal to 20% opacity. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Fuel receiving operation shall be equipped with ventilation system and fabric collector #7 with minimum of 4,466 sq. ft. filter area, maximum air-to-cloth ratio of 8:1, 200 hp exhaust fan, 5.0 hp reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Fabric collector #7 shall serve diverter gates #6 and #7, fixed stacker feed conveyor #17, fixed stacker telescoping spout, radial stacker feed conveyor #15, radial stacker conveyor #16, radial stacker telescoping spout, and equipment identified on permit S-75-10. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Truck tipper receiving hopper ventilation pickup points shall prevent particulate matter emissions to atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Truck tipper receiving hopper ventilation hood and hog ventilation hoods shall provide minimum indraft velocity of 200 ft./min. during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Truck tipper receiving hopper drag chain conveyor transfer point hood shall provide minimum indraft velocity of 150 ft./min. during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft. of belt width during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Scalping screen ventilation hood shall be designed to provide minimum indraft velocity of 50 ft./min. during entire truck unloading/screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism and operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] 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.

30. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Radial stackers telescoping spout discharge height shall be maintained as close as possible to top of storage pile. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Each ventilation system duct shall be equipped with capped 3/4 in. pitot port in an accessible location to facilitate duct velocity determination measurement. [District Rule 1081] Federally Enforceable Through Title V Permit
33. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,400 ft./min. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Deliveries of wood waste fuel shall not exceed 46 truck loads per day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Ventilation system and fabric collector shall operate whenever material is being transferred into or out of receiving hoppers. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Wood waste delivery trucks shall remain covered during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
37. There shall be no visible emissions of 5% opacity or greater from truck tipper or receiving hopper during entire unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Truck tipper receiving hopper fabric collector #5 shall be operated whenever material is being transferred into and out of hoppers. [District Rule 2201] Federally Enforceable Through Title V Permit
39. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and hog enclosures, including inlet and outlet openings. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Ventilation system and fabric collector #6 shall be operated whenever material is being transferred from fuel receiving operation. [District Rule 2201] Federally Enforceable Through Title V Permit
41. Ventilation system and fabric collector #7 shall be operated whenever material is being transferred from fuel receiving operations. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Material removed from each fabric collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Fuel transfer conveyors shall be covered and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Any stored fuel which is burning shall be immediately segregated and extinguished. [District Rule 2201] Federally Enforceable Through Title V Permit
45. All access roads and roadways associated with truck unloading operations shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
46. Operator shall visually check each truckload for unacceptable fuel before unloading. For non-agricultural fuel (e.g. secondary wood), a representative sample shall be taken from each source each day and stored for one month. [District Rule 2201] Federally Enforceable Through Title V Permit
47. Fuel samples shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
48. Particulate matter (PM-10) emissions from all fabric collectors shall not exceed 0.004 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
49. Particulate matter (PM-10) emissions from truck dump area fabric collector #5 shall not exceed 1.18 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Particulate matter (PM-10) emissions from scalping screen/hog area fabric collector #6 shall not exceed 0.67 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

51. Particulate matter (PM-10) emissions from stacker/reclaimer fabric collector #7 shall not exceed 1.25 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
52. Fugitive particulate matter (PM-10) emissions from fuel storage piles shall not exceed 60.81 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
53. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
54. Official test results and field data collected shall be submitted to the District within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
55. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
56. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
57. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
58. 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
59. 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
60. During each day of operation, the permittee shall record the pressure drop of the fabric collector, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
61. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
62. Operator shall record the daily number of truck deliveries of wood waste fuel. [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: S-75-10-12

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

FUEL RECLAMATION, CONVEYING & SCREENING OPERATION INCLUDING 35 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER #DC-4 WITH WATER SPRAY SYSTEM AND BOOMING AND SLEWING SYSTEM (SHARED WITH S-75-9) (PHASE II) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS DS-4 ABORT CHUTE, DS-4 TO BC-21; STATION #3 SERVES TRANSFER POINTS BC-18 TO BC-20, BC-19 TO BC-20), AND 2 FABRIC COLLECTORS

PERMIT UNIT REQUIREMENTS

1. While dormant, no fuel deliveries will be allowed by contract and the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Fuel reclamation operation shall be equipped with reclaimer table and reclaim transfer conveyor #19 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fuel reclamation operation shall be equipped with self-cleaning belt-type magnetic separator #4, and magnetic discharge take away conveyor #24. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fuel reclamation operation shall be equipped with partially enclosed 35 ton/hr auxiliary reclaim hopper #DC-5 with water sprays, and inclined live chain bottom and double spike roll discharger. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Fuel reclamation operation shall be equipped with 35 ton/hr capacity auxiliary reclaimer discharge conveyor #18. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #7. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Fuel reclamation operation shall be equipped with 35 ton/hr capacity, secondary screen feed conveyor #20 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Fuel reclamation operation shall be equipped with self cleaning, belt type, magnetic separator #5 and collection system. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #8. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Fuel reclamation operation shall be equipped with secondary disk type, scalping screen and oversized discharge chute and bunker. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Fuel reclamation operation shall be equipped with 35 ton/hr capacity boiler feed conveyor #21 with operational water dust suppression. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fuel reclamation operation shall be equipped with ventilation system, cyclone #2 (MAC H85) and fabric collector #9 with minimum of 1,832 sq. ft. filter area, maximum air-to-cloth ratio of 10.92 ft/min, 60 hp exhaust fan, reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Material collected by MAC H85 cyclone #2 shall discharge either to conveyor BC-21 or to the covered truck loadout listed on permit S-75-5. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Secondary scalping screen fabric collector #9 shall serve secondary screen conveyor #20, magnetic separator #5, diverter gate #8, secondary scalping screen, discharge chute and bunker, boiler feed conveyor, and beginning of fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Fuel reclamation operation shall be equipped with boiler distribution conveyor #DC-6. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Fuel reclamation operation shall be equipped with 35 ton/hr capacity, overfeed conveyor #22. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #9. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Fuel reclamation operation shall be equipped with abort bunker. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Fuel reclamation operation shall be equipped with ventilation system and fabric collector #11 with minimum of 1430 sq. ft. filter area, maximum air-to-cloth ratio of 8.2 ft/min, 50 hp exhaust fan, reverse air blower, air lock, air header, and screw conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Boiler area fabric collector #11 shall serve boiler distribution conveyor #DC-6, overfeed conveyor #22, diverter gate #9, abort bunker, and existing #BC-9. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft. of belt width during fuel reclamation, conveying and screening operation. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Secondary scalping screen ventilation hood shall provide minimum indraft velocity of 50 ft./min. while screen is in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Each fabric collector shall be equipped with operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
30. Each fabric collector shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 7 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Material removed from each fabric collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

32. Each ventilation system duct shall be equipped with capped 3/4 in. pitot port in an accessible location to facilitate duct velocity determination measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
33. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,400 ft./min. [District Rule 2201] Federally Enforceable Through Title V Permit
34. There shall be no visible emissions of 5% opacity or greater from storage pile during reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
35. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and fuel storage bin, including inlet and outlet openings. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Boiler area fabric collector #11 shall be operated whenever material is being transferred from fuel reclamation operation. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Fuel transfer conveyors shall be covered and covers shall be in place whenever conveyors are operating. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Particulate matter (PM10) emissions from fabric collector #9 shall not exceed 0.004 gr/scf, and maximum air flow shall not exceed 20,000 cfm. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Particulate matter (PM10) emissions from fabric collector #11 shall not exceed 0.0036 gr/scf, and maximum air flow shall not exceed 11,750 cfm. [District Rule 2201] Federally Enforceable Through Title V Permit
40. All access roads and roadways associated with fuel reclamation operation shall be paved and maintained in good condition at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
41. There shall be no visible emissions of greater than 0% opacity from the fabric collectors. Visible emissions from the fabric collectors shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken within 24 hours to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [District Rule 2520 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
42. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
43. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
44. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
45. 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
46. 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
47. During each day of operation, the permittee shall record the pressure drop of the fabric filters, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
48. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [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: S-75-11-29

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

315 MMBTU/HR EPI FLUIDIZED BUBBLING BED, BIOMASS-FUELED BOILER (UNIT #2) WITH NH₃, LIMESTONE, SAND AND SODIUM BICARBONATE (NAHCO₃) INJECTION, WITH BOILER EXHAUST VENTED TO SIX COMPARTMENT FABRIC FILTER DUST COLLECTOR; AND FOUR 10 MMBTU/HR THERMAL SOLUTIONS INCORPORATED MODEL NO. TSI-10 PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS

PERMIT UNIT REQUIREMENTS

1. While dormant, a blank flange will be installed on the natural gas line and the flange will be locked; no fuel deliveries will be allowed by contract; the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. A source test to demonstrate compliance with the NO_x and CO emission limits shall be performed within 60 days of recommencing operation of the dormant emissions unit. [District Rule 4306] Federally Enforceable Through Title V Permit
8. 15 MMBtu/hr start-up and 40 MMBtu/hr overhead natural gas-fired burners shall be of "low-NO_x" design utilizing staged combustion principles. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Boiler shall be equipped with two steam turbines powering a 24.5 MW (gross) electrical generator. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Boiler shall be equipped with a sodium bicarbonate (NaHCO₃) injection system. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Boiler shall be equipped with sand supply/reinjection system including two bucket elevators. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Boiler exhaust shall be served by six compartment fabric collector with a minimum filter area of 36,378 square feet and maximum air-to-cloth ratio of 4 ft./min. Boiler shall be equipped with induced draft air fan with 1,000 hp electric motor. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Each compartment of fabric collector shall be equipped with operational differential pressure indicator. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
14. The fabric collector shall operate at all times with a minimum differential pressure of 4 inches water column and a maximum differential pressure of 12 inches water column. [40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Combustion air supply lines and auxiliary burner natural gas supply line shall be equipped with operational volumetric flow-rate indicators. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Selective non-catalytic reduction ammonia injection system shall be equipped with operational ammonia volume flow-rate indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fabric collector exhaust stack shall be equipped with recording continuous monitors for opacity, SO₂, NO₂, CO, O₂, and flue gas volume flow-rate per Rule 1081. [District Rules 2201 and 1081 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Only PUC quality natural gas, biomass, sand, limestone, ammonia, air, sodium bicarbonate (NaHCO₃), and on-site generated dewatered cooling tower sludge shall be introduced into boiler. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
19. Wood fuel includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
20. Startup burner shall not operate when feed rate of biomass exceeds 20 tons per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Removal of ash from ash hoppers by manual means shall only be conducted during breakdown conditions or when boiler is not operating, and there shall be no visible emissions for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or 20% opacity. [District Rules 4101 and 4102] Federally Enforceable Through Title V Permit
22. Limestone, sodium bicarbonate (NaHCO₃) and/or onsite generated cooling tower sludge, shall be injected into boiler at a rate in pounds per ton of biomass fuel introduced into boiler which results in compliance with the SO_x emission limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Ammonia shall be injected into boiler at a rate, in pounds per ton of biomass fuel introduced into boiler, which results in compliance with the NO_x emission limitation. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Ammonia injection rate shall be controlled to prevent the emission of free ammonia in excess of 20 ppmv or such level as required to prevent detectable odors or a maximum concentration of 50 ppmv at ground level. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
25. NO_x and PM₁₀ emission data shall be obtained and provided, as required by NSPS 40CFR60.48b "Emissions monitoring for particulate and nitrogen oxides". CEM data shall be provided as required by 60.48b(f). [District Rule 4001 and 40 CFR 60 Subpart Db] Federally Enforceable Through Title V Permit
26. Particulate matter (PM₁₀) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.045 lb/MMBTU of filterable particulates and 14.08 lb/hr of filterable and condensable particulates. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
27. Sulfur compound emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 23 ppmvd @ 3% O₂ and 12.09 lb/hr (as SO₂). [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
28. Oxides of nitrogen emissions (as NO₂), except for periods of startup and shutdown as defined in this permit, shall not exceed 0.10 lb/MMBtu and 31.50 lb/hr. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
29. Volatile organic compound (VOC) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.020 lb/MMBTU and 6.3 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

30. Carbon monoxide (CO) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 183 ppmvd @ 3% O₂ and 44.10 lb/hr. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 500 lb/hr in any single hour during the startup or shutdown. [District Rules 2201, 2410, and 4352] Federally Enforceable Through Title V Permit
31. Emission rates shall not exceed any of the following: PM₁₀: 337.9 lb/day, SO_x (as SO₂): 290.2 lb/day, NO_x (as NO₂): 756.0 lb/day, VOC: 151.2 lb/day or CO (except during days of refractory cure or on days with startup and shut operations): 1058.4 lb/day. On days in which a startup and shutdown of this unit occurs, CO emissions shall not exceed 3,500 lb/day. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
32. On days of refractory cure using startup burner, CO emissions shall not exceed 6,240 lb/day and heat input to boiler shall not exceed 3,206.6 MMBtu/day. CO emission limit on each refractory cure day shall be determined by records of fuel use, fuel heat content, and resulting maximum daily heat rate. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
33. On days of refractory cure using four 10 MMBtu/hr refractory cure heaters, heat input shall not exceed 960 MMBtu/day to the refractory cure heaters. Refractory burner emission rates shall not exceed any of the following: PM₁₀: 0.0076 lb/MMBtu, SO_x (as SO₂): 0.00285 lb/MMBtu, NO_x (as NO₂): 0.1 lb/MMBtu, VOC: 0.0055 lb/MMBtu or CO: 0.3 lb/MMBtu. Daily records of fuel use, fuel heat content, and resulting daily heat rate input shall be kept, to demonstrate compliance with emission limits during refractory curing. [District Rule 2201] Federally Enforceable Through Title V Permit
34. This boiler shall not be operated under refractory cure conditions for more than 6 days per year. Refractory cure shall not be performed on more than one unit (Boiler #1, S-75-6 or Boiler #2, S-75-11) at any time. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Permittee shall notify the District in writing of the start date and end date of operating under refractory cure and alternate CO emission limit condition. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Excess emissions of NO_x, SO_x, SO₂, and CO as shown by the continuous monitoring system shall be defined as any 24 hour period during which the average emissions of NO_x, SO_x, or CO exceed any emissions limit, except as noted in this permit on days of refractory cure or on day(s) in which a startup or shutdown of this unit occurs. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
37. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
38. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
39. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 & 75%. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
40. "Steady state" load is defined as the operational conditions that generate electrical power at + or - one (1) megawatt from the target load established and documented by control room log book. [District Rule 2201] Federally Enforceable Through Title V Permit
41. During startup and shutdown, the emissions control system shall be in operation, and emissions shall be minimized insofar as technologically possible. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
42. Annual audits of continuous monitors shall be conducted by independent laboratory in accordance with E.P.A. guidelines, shall be witnessed by District and results shall be submitted to District within 60 days of such audit pursuant to Rule 1080. [District Rule 1080] Federally Enforceable Through Title V Permit
43. Upon District request, a District approved 25 ton representative sample of biomass fuel in the reclaim pile shall be sorted. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

44. Data collected during sorting of 25 ton sample of biomass fuel shall be in pounds of material per ton of biomass, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102]
45. District-witnessed emission sample collection for PM₁₀, SO_x, NO_x and CO (except CO during designated refractory cure days) shall be conducted by an independent testing laboratory annually, or within 60 days of startup if the unit had been shutdown. [District Rules 1081 and 4352] Federally Enforceable Through Title V Permit
46. Source testing for the following parameters shall be conducted using the stated test methods: NO_x - EPA Method 7 or ARB Method 100, CO - EPA Method 10 or ARB Method 100, CO₂ - EPA Method 3 or ARB Method 100, O₂ - EPA Method 3 or ARB Method 100, SO₂ - EPA Method 6 or ARB Method 100, PM₁₀ - EPA Method 5 or 201A & 202, Stack Gas Flow Rate - EPA Method 2, Moisture Content - EPA Method 4, Ammonia - BAAQMD ST1B, & Fuel Heating Value - ASTM Method D2015-85 or E711. [District Rules 2201 and 4352] Federally Enforceable Through Title V Permit
47. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081] Federally Enforceable Through Title V Permit
48. NO_x emissions shall not exceed 275,920 lb in any 12 month period. [District Rule 2201] Federally Enforceable Through Title V Permit
49. Permittee shall project and use the proper mix of fuels to ensure that actual emissions from boiler S-75-11 are offset with creditable biomass on a quarterly basis. Quarterly NO_x emission offsets required from creditable biomass = (Actual quarterly emissions) - (604.8 lb/day x days/qtr). [District Rule 2201] Federally Enforceable Through Title V Permit
50. Open-burning emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning are listed in the attachment "Open Burn Emission Factors" (District policy SSP-2005). [District Rule 2201] Federally Enforceable Through Title V Permit
51. If quarterly actual NO_x emissions from boiler S-75-11 are greater than zero, the emission reduction credit from creditable biomass fuel shall be calculated for NO_x using the following formula: $P_q = x * [\sum_{j=1}^n (B_j) * (EF_j) * (HBF_j) * (QDF_{jq})]$ where: P_q = Pollutant offset credit in lb/qtr = sum of NO_x emissions from ag waste credit < 15 miles + NO_x emissions > 15 miles from facility. q = calendar quarter, $x = 0.5$ for biomass originating > 15 miles and 0.833 for < 15 miles. j = each creditable biomass type. B = tons of biomass type (j) used per quarter. EF = emission factor for particular biomass (from SSP-2005). HBF_j = fraction of biomass type (j) that has been demonstrated to have historically open field burned (for orchard prunings $HBF=0.96$, for other biomass a District approved HBF factor must be used). QDF_{jq} = Quarterly distribution factor - fraction of burning of biomass (j) which occurs in calendar quarter (q). For orchard prunings $QDF = Q1: 0.251, Q2: 0.275, Q3: 0.149, Q4: 0.325$. [District Rule 2201] Federally Enforceable Through Title V Permit
52. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. [District Rules 1080 and 2201] Federally Enforceable Through Title V Permit
53. Daily records for each load of creditable biomass received shall be maintained which include the geographic origin (for applicability of distance offset ratio), date, weigh ticket number, supplier name, fuel type, tons received, the offset ratio for the load of biomass, and the amount of offset credit (in pounds of NO_x) attributable to each load of biomass. Records shall include certifications that any creditable biomass for which offset credit is claimed has historically been open burned in the San Joaquin Valley air basin. [District Rule 2201] Federally Enforceable Through Title V Permit
54. Permittee shall submit to the District a quarterly report accounting for the tonnage of agricultural waste eliminated from open field burning and used as plant fuel. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

55. Quarterly report of agricultural waste eliminated from open field burning (to offset NO_x emissions) used as fuel at facility shall document creditable ag waste fuel receipt quantities, if fuel originates > 15 miles from facility, offset credit ratios, emission factors used, and summary of the resultant emissions offsets provided using "the procedure", and shall be submitted to the District within 30 days of the end of the quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
56. Quarterly report, of agricultural waste eliminated from open field burning used for the purpose of providing required NO_x offsets, shall document historical biomass fraction (HBF) and quarterly distribution factor (QDF) for each biomass fuel used to calculate credit. For orchard prunings HBF = 0.96 and QDF = as stated in this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
57. All equipment, facilities, and systems shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [District Rule 2410] Federally Enforceable Through Title V Permit
58. The SJVAPCD shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit. In addition, the SJVAPCD shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of the permit or of any law or regulations which such malfunction may cause. [District Rule 2410] Federally Enforceable Through Title V Permit
59. In the event of any changes in control or ownership, this permit shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, a copy of which shall be forwarded to the State, CARB, and the SJVAPCD. [District Rule 2410] Federally Enforceable Through Title V Permit
60. The provisions of this permit are severable, and, if any provisions of this permit is held invalid, the remainder of this permit shall not be affected thereby. [District Rule 2410] Federally Enforceable Through Title V Permit
61. The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable federal, state and local air quality regulations. [District Rule 2410] Federally Enforceable Through Title V Permit
62. For performance test purposes, sampling ports, platforms, and access shall be provided on the combustion exhaust system in accordance with 40 CFR 60.8(e). [District Rule 1081] Federally Enforceable Through Title V Permit
63. Permittee shall continuously record the steam output and the steam temperature and pressure from the boiler; also, permittee shall determine the boiler efficiency annually. The heat input, as determined from the boiler efficiency and steam production rate, shall not exceed 315 MMBtu/hr. [District Rule 2410] Federally Enforceable Through Title V Permit
64. If the emission limit for any of the above pollutants (SO₂, NO_x, PM₁₀, and CO) is revised, the difference between the pollutant emission limit set forth above and the lower pollutant emission limit shall not be allowed as an emission offset for future construction or modification. [District Rule 2410] Federally Enforceable Through Title V Permit
65. Permittee shall maintain and operate a continuous monitoring system to measure stack gas NO_x, CO, SO₂, O₂ and Opacity in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specifications 1,2,3, and 4). [District Rules 2410 and 4001 and 40 CFR Part 64,] Federally Enforceable Through Title V Permit
66. Permittee shall maintain and operate a continuous monitoring system to measure stack gas volumetric flow rates in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR Part 60, Appendix B, Performance Specification 6). [District Rule 2410] 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.

67. Permittee shall submit a written report of all excess emissions to the SJVAPCD for every calendar quarter. The report shall include the following: a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. b) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns, and malfunctions of any of the boilers. The nature and cause of any malfunction (if known) and the corrective action take or preventative measures adopted shall also be reported. c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report. [District Rule 2410] Federally Enforceable Through Title V Permit
68. Excess emissions shall be defined as any period greater than three minutes during which the average opacity as measured by the continuous monitoring system exceeds the maximum emission limit. [District Rule 2410] Federally Enforceable Through Title V Permit
69. Permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [District Rule 2410] Federally Enforceable Through Title V Permit
70. Biomass fuel sulfur shall not exceed 0.90% dry weight and biomass fuel nitrogen shall not exceed 2.5% dry weight. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
71. Biomass means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips and discarded wood, including clean, chipped wood products, plywood, particle board, fiberboard and wood products manufacturing items, wood based construction demolition materials, pallets, crates and boxes. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal solid waste. [District Rules 2201, 2410, and 4102] Federally Enforceable Through Title V Permit
72. Additional biomass fuels may be administratively appended to this list upon a written request by the permittee to add an unlisted fuel, and provided the permittee can demonstrate that emissions of affected pollutants will not increase and that the boiler is designed to accommodate such fuel without physical or operational modifications. [District Rule 2410] Federally Enforceable Through Title V Permit
73. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal waste. In addition, contamination of the biomass fuel shall not exceed 0.04% by weight plastics and 0.62% by weight of metals, plastics, paper, painted wood, preservative treated wood and nonwood roofing materials (except asbestos). [District Rules 2410 and 4102] Federally Enforceable Through Title V Permit
74. The boiler shall not consume more than 142,857.1 scf/hr of natural gas with a higher heating value of 1,050 Btu/scf through the inbed and overbed burners. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
75. The boiler shall not consume more than 14,285.7 scf/hr of natural gas with a higher heating value (HHV) of 1,050 Btu/scf through the startup burner. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
76. The startup burner shall only be used for startup purposes. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
77. The total heat input into the boiler shall not exceed 315 MMBtu/hr (HHV) when firing with both biomass and natural gas. [District Rules 2201 and 2410] Federally Enforceable Through Title V Permit
78. Boiler shall meet all applicable requirements of 40 CFR 60 Subparts A and Db. [District Rules 2410 and 4001] 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.

79. All correspondence as required by this Operating Permit shall be forwarded to the following addresses: 1) Chief, Stationary Source Division, California Air Resources Board, PO Box 2815, Sacramento, CA 95812; 2) SJVUAPCD Compliance Department, 34946 Flyover Court, Bakersfield, CA 93308. [District Rule 2410] Federally Enforceable Through Title V Permit
80. The owner/operator shall operate, maintain and calibrate Continuous Emission Monitoring system pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR 60 Appendix B and the Relative Accuracy Test Audit of Appendix F. [District Rule 4352 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
81. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.3 (as amended 12/15/11), or as certified by a third party fuel supplier. [District Rule 4352] Federally Enforceable Through Title V Permit
82. The compliance determination shall not be established within two hours after a period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352] Federally Enforceable Through Title V Permit
83. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
84. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
85. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
86. 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
87. 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
88. During each day of operation, the permittee shall record the pressure drop of the fabric filter, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
89. Upon detecting any excursion from the 20% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit
90. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
91. Particulate Matter emissions from the combustion contaminants derived from the fuel shall not exceed 10.0 lb/hr. [District Rule 4301] Federally Enforceable Through Title V Permit
92. Records of startup and shutdown times and startup and shutdown emissions shall be maintained [District Rule 2201] Federally Enforceable Through Title V Permit
93. Permittee shall comply with the requirements of 40 CFR 63 Part DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
94. HCl emissions from this unit shall not exceed 0.022 lb/MMBtu except during periods of startup and shutdown. HCl emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] 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.

95. Mercury emissions from this unit shall not exceed 0.0000057 lb/MMBtu except during periods of startup and shutdown. Mercury emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
96. CO emissions shall not exceed 310 ppmvd @ 3% O₂ on a 30-day rolling CEMS average (as defined in Subpart DDDDD § 63.7575) except during periods of startup and shutdown. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
97. Filterable PM shall not exceed 0.11 lb/MMBtu except during periods of startup and shutdown, or total selected metals (TSM) as defined in 40 CFR 63 Subpart DDDDD shall not exceed 0.0012 lb/MMBtu except during periods of startup and shutdown. Filterable PM or TSM emissions shall be determined annually according to the procedures in 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
98. By January 31, 2016, and annually thereafter, the permittee shall perform a tune-up of the boiler as specified in 40 CFR 63.7540. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
99. By January 31, 2016, permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment that has been completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes this unit also satisfies this requirement. The energy assessment must include the following items with extent of the evaluation for items a through e appropriate for the on-site technical hours listed in 40 CFR 63.7575: a) A visual inspection of the boiler or process heater system; b) An evaluation of operating characteristics of the boiler, specification of energy using systems, operating and maintenance procedures, and unusual operating constraints; c) An inventory of major energy use systems consuming energy from the boiler and which are under the control of the boiler owner/operator; d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; e) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified; f) A list of cost effective energy conservation measures that are within the facility's control; g) A list of energy savings potential of the energy conservation measures identified; and h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those improvements. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
100. Permittee shall operate all continuous monitoring systems during startup and shutdown of the boiler. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
101. Permittee shall comply with all applicable emissions limits at all times except for startup or shutdown periods conforming with this work practice. Permittee shall collect monitoring data during periods of startup and shutdown, as specified in §63.7535(b). Permittee shall keep records during periods of startup and shutdown and shall provide reports concerning activities and periods of startup and shutdown, as specified in §63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
102. Permittee shall vent emissions to the main stack(s) upon firing the unit on biomass and shall engage all of the applicable control devices except limestone injection in fluidized bed combustion boilers, fabric filter, and selective non-catalytic reduction. Those systems shall be started as expeditiously as possible. Permittee shall collect monitoring data during periods of startup as specified in 40 CFR 63.7535(b). Permittee shall keep records during periods of startup. Permittee shall provide reports concerning activities and periods of startup, as specified in 40 CFR 63.7555. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
103. Opacity from the boiler shall not exceed 10% on a daily block average. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
104. Permittee shall maintain the 30-day rolling average sorbent (limestone, bicarbonate) or carbon injection rate at or above the minimum sorbent or carbon injection rate as defined in §63.7575 of 40 CFR Part 63 Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] 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.

105. Permittee shall ensure that the flow of injected sorbent (limestone, bicarbonate) or carbon is not interrupted by operating an opacity meter, triboelectric monitoring system, or other system (approved by the District in writing) that alerts the permittee that an absence of flow of sorbent or carbon is present. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
106. For boilers that demonstrate compliance with a performance test, the permittee shall maintain the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
107. Filterable PM, TSM, HCl, and mercury emissions shall be source tested using the methods and procedures specified in Subpart DDDDD. [40 CFR Part 63 Subpart DDDDD] Federally Enforceable Through Title V Permit
108. Reports required by 40 CFR 63 Subpart DDDDD shall be submitted electronically or by hard copy to EPA as described in 40 CFR 63.7550 and to SJVAPCD. [40 CFR Part 63 Subpart DDDDD] 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: S-75-12-5

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

5,236 GALLON LIMESTONE RECEIVING & STORAGE SILO (UNIT #2) INCLUDING VIBRATING BIN BOTTOM, PNEUMATIC CONVEYING SYSTEM WITH 25 HP MOTOR AND 162 SQUARE FOOT BIN VENT FILTER WITH 1 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM

PERMIT UNIT REQUIREMENTS

1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent only through bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filter shall have a maximum air to cloth ratio of 5 ft/min and a minimum filter area of 162 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Bin vent filter shall be equipped with an operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Only crushed limestone shall be handled. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
12. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Silo shall not operate more than 7 hours/day. [District Rule 2201] Federally Enforceable Through Title V Permit
14. An individual trained to perform EPA Method 22 visible emission observations shall perform a daily inspection of the facility. Daily inspections shall take place at an appropriate time each day depending on plant start time and sunrise. The duration of Method 22 observations shall not be less than 15 minutes. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Permittee shall keep records of amounts and size of limestone received and make such records readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Records of dust collector maintenance, hours of operation, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
20. Operator shall record the daily hours of operation for this unit. [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: S-75-13-5

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

45,886 GALLON SAND STORAGE SILO (UNIT #2) INCLUDING PNEUMATIC CONVEYING SYSTEM AND BIN VENT FILTER WITH 162 SQUARE FEET OF FILTERING AREA, 1.0 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM

PERMIT UNIT REQUIREMENTS

1. While dormant, the feed line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Storage silo shall vent only through bin vent filter. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Bin vent filter shall have a maximum air to cloth ratio of 5 ft/min. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Bin vent filter shall have a minimum filter area of 162 square feet. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Bin vent filter shall be equipped with an operational differential pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material collected by bin vent filter shall fall by gravity into storage silo. [District Rule 2201] Federally Enforceable Through Title V Permit
12. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Silo shall not operate more than 7 hours/day. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. An individual trained to perform EPA Method 22 visible emission observations shall perform a daily inspection of the facility. Daily inspections shall take place at an appropriate time each day depending on plant start time and sunrise. The duration of Method 22 observations shall not be less than 15 minutes. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
15. Permittee shall keep records of amounts and size of sand received and make such records readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Records of dust collector maintenance, hours of operation, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
20. Operator shall record the daily hours of operation for this unit. [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: S-75-16-3

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

244 BHP (INTERMITTENT) CUMMINS MODEL 6BTA 5.9 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE
POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District Rule 2201] Federally Enforceable Through Title V Permit
2. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [Kern County Rule 407, District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
3. 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
4. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. 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
11. 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
12. 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
13. 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
14. 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
15. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. 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, 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
17. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520 and 17 CCR 93115] Federally Enforceable Through Title V Permit
18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 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: S-75-17-3

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

830 BHP (INTERMITTENT) DETROIT MODEL 8123 7405 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. 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, 5.7.2 and CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [Kern County Rule 407, District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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
7. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. 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
17. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. 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, 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
19. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520 and 17 CCR 93115] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 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: S-75-18-3

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

1,106 BHP (INTERMITTENT) CATERPILLAR MODEL 7C1299 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY
STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. 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 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [Kern County Rule 407, District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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
7. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the initial start-up hours, the number of hours of operation, and the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. 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
17. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. 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, 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
19. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520 and 17 CCR 93115] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 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: S-75-19-4

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

UNIT ONE: 28,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING FOUR 2-SPEED FAN MOTORS AND TWO MAIN CIRCULATION WATER PUMPS

PERMIT UNIT REQUIREMENTS

1. While dormant, the make-up water and water fill line will have a blank flange installed and the blank flange will be locked. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. No hexavalent chromium containing compounds shall be added to cooling tower circulation water. [District Rule 7012]
8. Total electric motor horsepower for this cooling tower shall not exceed 1440 HP. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-75-20-4

EXPIRATION DATE: 08/31/2022

SECTION: SE25 **TOWNSHIP:** 25S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

UNIT TWO: 18,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING TWO 2-SPEED FAN MOTORS, TWO MAIN CIRCULATION WATER PUMPS, AND TWO COMPONENT COOLING WATER CIRCULATION PUMPS

PERMIT UNIT REQUIREMENTS

1. While dormant, the make-up water and water fill line will have a blank flange installed and the blank flange will be locked. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. No hexavalent chromium containing compounds shall be added to cooling tower circulation water. [District Rule 7012]
8. Total electric motor horsepower for this cooling tower shall not exceed 1200 HP. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-75-21-4

EXPIRATION DATE: 08/31/2022

SECTION: 25 **TOWNSHIP:** 25 **RANGE:** 25

EQUIPMENT DESCRIPTION:

EMERGENCY FUEL FEED SYSTEM INCLUDING 12'X5'X8' FUEL RECEIVING HOPPER SERVING UNITS 1 & 2, 48' SCREW CONVEYOR, AND WATER/SURFACTANT SPRAYS AT HOPPER RIM AND MATERIAL TRANSFER POINTS FROM SCREW CONVEYOR TO BELT CONVEYORS BC-8 AND BC-15

PERMIT UNIT REQUIREMENTS

1. While dormant, no fuel deliveries will be allowed by contract and the fuel yard will be maintained as empty. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. Operation shall be equipped with 12' by 5' by 8' receiving hopper, 48' long screw conveyor, and water/surfactant sprays at hopper rim and material transfer points from screw conveyor to belt conveyors BC-8 and BC-15. [District Rule 2201] Federally Enforceable Through Title V Permit
8. There shall be no visible emissions of 5% opacity or greater from loading of the hopper and material transfer points. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fabric collector #1 shall be operated whenever material is being transferred from emergency fuel system. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Water/surfactant sprays shall be in operation whenever emergency fuel system is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Emergency fuel system throughput shall not exceed 35 tons/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Permittee shall maintain records of emergency fuel system throughput and shall make such records readily available for District inspection upon request. [District Rules 2201 and Rule 2520] 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. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
14. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
15. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
16. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit

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

ATTACHMENT C

Detailed Summary List of Facility Permits

Detailed Facility Report
For Facility=75
Sorted by Facility Name and Permit Number

CES DELANO BECCS PLANT 31500 POND RD DELANO, CA 93215	FAC # STATUS: TELEPHONE:	S 75 A	TYPE: TOXIC ID:	TitleV 50067	EXPIRE ON: AREA: INSP. DATE:	08/31/2022 23 / 05/24
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-75-1-13	Miscellaneous	999-99	1	0.00	0.00	A	FUEL RECEIVING, SCREENING & CONVEYING OPERATION #1 INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 175 TON/HR FUEL TRANSFER CONVEYOR #1 WITH BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-1 TO DS-1, BC-9 TO BC-2, HOG-1 TO BC-2; STATION #2 SERVES POINTS BC-3 & BC-5), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #1, AND 3 FABRIC COLLECTORS
S-75-2-5	Electrical Generation Component	999-99	1	0.00	0.00	D	FUEL RECEIVING, SCREENING & CONVEYING OPERATION #2 INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W INCLINED DRAG CONVEYOR 7 SPIKE ROLLER, AND 175 TON/HR FUEL TRANSFER CONVEYOR #1 WITH BELT SCALE SHARED WITH S-75-1 (PHASE I) WITH FOAM DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-1 TO DS-1, BC-9 TO BC-2, HOG-1 TO BC-2; STATION #2 SERVES POINTS BC-3 & BC-5), AND HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #2
S-75-3-8	Miscellaneous	999-99	1	0.00	0.00	A	4,400 GALLON LIMESTONE STORAGE SILO (UNIT #1), WITH VAPOR SPACE TIED IN COMMON WITH SAND SILO PTO 75-4, INCLUDING BIN VENT FILTER WITH 95 SQUARE FOOT FILTER AREA, 1 HP EXHAUST FAN, 1/4 HP BAG SHAKER MOTOR, AND PRODUCT CONVEYING BLOWER
S-75-4-8	Miscellaneous	999-99	1	0.00	0.00	A	65,828 GALLON SAND STORAGE (UNIT # 1) SILO, WITH VAPOR SPACE TIED COMMON WITH LIMESTONE SILO PTO S-75-3, INCLUDING BIN VENT FILTER WITH 120 SQ.FT. FILTER AREA, 1 HP EXHAUST FAN AND 1/4 HP BAG SHAKER MOTOR
S-75-5-12	Miscellaneous	999-99	1	0.00	0.00	A	FUEL RECLAMATION, CONVEYING AND SCREENING OPERATION INCLUDING 45 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER WITH WATER SPRAY SYSTEM, RECLAIMER FEED TABLE, RECLAIMER CONVEYOR #6, AND AUXILIARY FUEL RECLAIM HOPPER (PHASE I) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-9 TO BC-2, BC-10, DS-2 TO BC-8; STATION #2 SERVES TRANSFER POINTS BC-6 TO BC-7, DC-3 TO BC-7), AND 3 FABRIC COLLECTORS
S-75-6-33	32 MW electric power generation	3020-08A F	1	9,803.00	9,803.00	A	400 MMBTU/HR (32 MW) EPI FLUIDIZED BED, BIOMASS-FUELED BOILER (UNIT #1) WITH NH3, LIMESTONE, SODIUM BICARBONATE, AND SAND INJECTION, WITH BOILER EXHAUST VENTED TO FABRIC FILTER; AND FOUR 10 MMBTU/HR PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS
S-75-7-6	Miscellaneous	999-99	1	0.00	0.00	A	44,883 GALLON ASH STORAGE SILO WITH UNLOADING SPOUT, BOTH SERVED BY BIN VENT FILTER WITH 95 SQ.FT FILTER AREA AND 1/2 HP MOTOR - SILO RECEIVING MATERIAL FROM PHASE I AND PHASE II ASH HANDLING CONVEYOR

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Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-75-9-10	Miscellaneous	999-99	1	0.00	0.00	A	FUEL RECEIVING, SCREENING & CONVEYING OPERATION INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 100 TON/HR FUEL RECEIVING CONVEYOR #11 W/BELT SCALE WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS BC-11 TO DS-3, HOG-2 TO BC-13, BC-12; STATION #3 SERVES POINTS BC-16 & BC-17), HIGH PRESSURE WATER SPRAY AT TRUCK UNLOADER #3, AND AND 3 FABRIC COLLECTORS
S-75-10-12	Miscellaneous	999-99	1	0.00	0.00	A	FUEL RECLAMATION, CONVEYING & SCREENING OPERATION INCLUDING 35 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER #DC-4 WITH WATER SPRAY SYSTEM AND BOOMING AND SLEWING SYSTEM (SHARED WITH S-75-9) (PHASE II) WITH WATER DUST SUPPRESSION SYSTEM (STATION #1 SERVES TRANSFER POINTS DS-4 ABORT CHUTE, DS-4 TO BC-21; STATION #3 SERVES TRANSFER POINTS BC-18 TO BC-20, BC-19 TO BC-20), AND 2 FABRIC COLLECTORS
S-75-11-29	24.5 MW electric power generation	3020-08A F	1	9,803.00	9,803.00	A	315 MMBTU/HR EPI FLUIDIZED BUBBLING BED, BIOMASS-FUELED BOILER (UNIT #2) WITH NH3, LIMESTONE, SAND AND SODIUM BICARBONATE (NAHCO3) INJECTION, WITH BOILER EXHAUST VENTED TO SIX COMPARTMENT FABRIC FILTER DUST COLLECTOR; AND FOUR 10 MMBTU/HR THERMAL SOLUTIONS INCORPORATED MODEL NO. TSI-10 PORTABLE NATURAL GAS-FIRED REFRACTORY CURING HEATERS
S-75-12-5	Miscellaneous	999-99	1	0.00	0.00	A	5,236 GALLON LIMESTONE RECEIVING & STORAGE SILO (UNIT #2) INCLUDING VIBRATING BIN BOTTOM, PNEUMATIC CONVEYING SYSTEM WITH 25 HP MOTOR AND 162 SQUARE FOOT BIN VENT FILTER WITH 1 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM
S-75-13-5	Miscellaneous	999-99	1	0.00	0.00	A	45,886 GALLON SAND STORAGE SILO (UNIT #2) INCLUDING PNEUMATIC CONVEYING SYSTEM AND BIN VENT FILTER WITH 162 SQUARE FEET OF FILTERING AREA, 1.0 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM
S-75-16-3	244 bhp IC engine	3020-10 C	1	290.00	290.00	A	244 BHP (INTERMITTENT) CUMMINS MODEL 6BTA 5.9 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
S-75-17-3	830 bhp IC engine	3020-10 E	1	723.00	723.00	A	830 BHP (INTERMITTENT) DETROIT MODEL 8123 7405 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-75-18-3	1106 bhp IC engine	3020-10 F	1	900.00	900.00	A	1,106 BHP (INTERMITTENT) CATERPILLAR MODEL 7C1299 TIER 0 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-75-19-4	Miscellaneous	999-99	1	0.00	0.00	A	UNIT ONE: 28,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING FOUR 2-SPEED FAN MOTORS AND TWO MAIN CIRCULATION WATER PUMPS

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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-75-20-4	Miscellaneous	999-99	1	0.00	0.00	A	UNIT TWO: 18,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING TWO 2-SPEED FAN MOTORS, TWO MAIN CIRCULATION WATER PUMPS, AND TWO COMPONENT COOLING WATER CIRCULATION PUMPS
S-75-21-4	Miscellaneous	999-99	1	0.00	0.00	A	EMERGENCY FUEL FEED SYSTEM INCLUDING 12'X5'X8' FUEL RECEIVING HOPPER SERVING UNITS 1 & 2, 48' SCREW CONVEYOR, AND WATER/SURFACTANT SPRAYS AT HOPPER RIM AND MATERIAL TRANSFER POINTS FROM SCREW CONVEYOR TO BELT CONVEYORS BC-8 AND BC-15

Number of Facilities Reported: 1