

March 30, 2020

Ms. Neha Shah  
Land O' Lakes Inc  
400 South M Street  
Tulare, CA 93274

**Re: Notice of Preliminary Decision – Title V Permit Renewal**  
**Facility Number: S-525**  
**Project Number: S-1194194**

Dear Ms. Shah:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Land O' Lakes Inc at 400 South M St in Tulare, California.

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

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,



Arnaud Marjollet  
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email  
cc: Gerardo C. Rios, EPA (w/enclosure) via EPS

**Samir Sheikh**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
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**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT**

Proposed Title V Permit Renewal Evaluation  
Land O' Lakes Inc  
S-525

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**TITLE V PERMIT RENEWAL EVALUATION**  
**Milk Processing / Dairy Products Manufacturer**

**Engineer:** Dan Klevann  
**Date:** March 23, 2020

**Facility Number:** S-525  
**Facility Name:** Land O' Lakes, Inc  
**Mailing Address:** 400 South M Street  
Tulare, CA 93274

**Contact Name:** Neha Shah  
**Phone:** 559-687-8287

**Responsible Official:** Neha Shah  
**Title:** Plant Manager

**Project # :** S-1194194  
**Deemed Complete:** January 21, 2020

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**I. PROPOSAL**

Land O' Lakes, Inc was issued a Title V permit on January 14, 1999. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

**II. FACILITY LOCATION**

Land O' Lakes Inc is located at 400 South M Street, Tulare 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**

- District Rule 2201, New and Modified Stationary Source Review Rule (amended August 15, 2019)

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

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

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

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

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

The following rules have been not been amended since the renewed Title V permit was issued. The most recent date reflects the version which has been approved by the EPA into the SIP.

- 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 1100 Equipment Breakdown (amended December 17, 1992)
- District Rule 2010 Permits Required (amended December 17, 1992)

- District Rule 2031 Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070 Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080 Conditional Approval (amended December 17, 1992)
- District Rule 2520 Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 2410, Prevention of Significant Deterioration (adopted June 16, 2011, effective November 26, 2012)
- District Rule 4101 Visible Emissions (amended February 17, 2005)
- District Rule 4102 Nuisance (amended December 17, 1992)
- 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 (adopted May 21, 1992)
- District Rule 4305 Boilers, Steam Generators, And Process Heaters - Phase 2 (Amended 8/21/03)
- District Rule 4306 Boilers, Steam Generators, And Process Heaters – Phase 3 (Amended October 16, 2008)
- District Rule 4309 Dryers, Dehydrators, And Ovens (Adopted December 15, 2005)
- District Rule 4309, Dryers, Dehydrators, and Ovens (adopted December 15, 2005)
- District Rule 4320 Advanced Emission Reduction Options For Boilers, Steam Generators, And Process Heaters Greater Than 5.0 Mmbtu/Hr (Adopted October 16, 2008)
- District Rule 4351 Boilers, Steam Generators, Process Heaters – Phase 1 (amended August 21, 2003)
- District Rule 4601 Architectural Coatings (Amended December 17, 2009)
- District Rule 4702 Internal Combustion Engines – Phase 2 (amended January 18, 2007)
- District Rule 4801 Sulfur Compounds (amended December 17, 1992)
- District Rule 8011 General Requirements ( Amended August 19, 2004)
- District Rule 8021 Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031 Bulk Materials (amended August 19, 2004)
- District Rule 8041 Carryout and Trackout (amended August 19, 2004)
- District Rule 8051 Open Areas (amended August 19, 2004)
- District Rule 8061 Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071 Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)

- 40 CFR Part 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (amended June 13, 2007)
- 40 CFR Part 60, Subpart K, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After June 11, 1973 and Prior to May 19, 1978 (amended Oct. 17, 2000)
- 40 CFR Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978 and Prior to July 23, 1984 (amended 12/14/2000)
- 40 CFR Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (amended 10/15/03)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (4/6/73)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM) (10/22/97)
- 40 CFR Part 68, Chemical Accident Prevention Provisions (1/31/94)

## VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

### A. Rules Added/Updated

None

### B. Rules Not Updated

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

## 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.

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

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

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

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

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

Major Source Thresholds (9/21/06 Revision of Rule 2201)

Pollutant	lb/year	ton/year
NOx	20,000	10
SOx	140,000	70
PM10	140,000	70
CO	200,000	100
VOC	20,000	10

Note that the Major Source thresholds for NOx and VOC were lowered from 50,000 to 20,000 lb/yr. via the 12/18/08 amendment to Rule 2201 (the amended rule was not effective till 6/10/10). Permits S-525-2 through '41 were evaluated for CAM purposes in the previous Title V renewal using the 50,000 lb/year NOx and VOC thresholds. Consequently, for permits S-525-2 through '41, this discussion will only evaluate units subject to CAM for NOx and VOC.

Permits S-525-42 through '48 are new and weren't evaluated for CAM in the previous Title V permit renewal; therefore, they will be evaluated for all pollutants.

1. **S-525-2-10: 71.7 MMBtu/hr Natural Gas-Fired Boiler**

This permit unit has emissions limits for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, this permit unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

This permit may be subject to CAM for NO<sub>x</sub> since there is a NO<sub>x</sub> limit, and it has add-on controls in the form of FGR. However, the pre-control NO<sub>x</sub> potential to emit is less than the major source threshold of 20,000 pounds NO<sub>x</sub>/year as shown below. Therefore, this unit is not subject to CAM.

The natural gas controlled-low NO<sub>x</sub> emission factor is 50 lb/MMscf or 0.049 lb/MMBtu (AP-42, 1.4-5, July 1998). The unit is limited to a maximum annual heat input limit of 30 billion Btu per calendar year.

$$30,000 \text{ MMBtu/yr} \times 0.049 \text{ lb-NO}_x/\text{MMBtu} = 1,470 \text{ lb-NO}_x/\text{year}$$

2. **S-525-3-10: 17.74 MMBtu/hr Dryer With Baghouse**

This permit unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC.

3. **S-525-11 through '14 have PM10 emissions only and were evaluated in the previous TV renewal. Therefore, a CAM discussion is not required for these permits.**

4. **S-525-30-16: 28 MMBtu/hr Dryer With Baghouse**

This permit unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. The permit unit was evaluated for PM10 in the previous TV renewal. Therefore, a CAM discussion is not required for this permit.

5. **S-525-31-5: 750 BHP Emergency Standby IC Engine**

This permit unit does not have an emissions limit. Therefore, the permit unit is not subject to CAM.

6. **S-525-32-5: 435 BHP Emergency Standby IC Engine**

This permit unit does not have an emissions limit. Therefore, the permit unit is not subject to CAM.



7. **S-525-33-5: 900 BHP Emergency Standby IC Engine**

This permit unit does not have an emissions limit. Therefore, the permit unit is not subject to CAM.

8. **S-525-35-10: 122 MMBtu/hr Natural Gas-Fired Boiler**

This permit unit has emissions limits for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, this permit unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

This permit may be subject to CAM for NO<sub>x</sub> since there is a NO<sub>x</sub> limit, and it has add-on controls in the form of FGR. However, the pre-control NO<sub>x</sub> potential to emit is less than the major source threshold of 20,000 pounds NO<sub>x</sub>/year as shown below. Therefore, this unit is not subject to CAM.

The burner manufacturer guarantees that the burner will achieve less than 9 ppm NO<sub>x</sub> (0.011 lb/MMBtu) without the use of FGR (S1141424).

$$122 \text{ MMBtu/hr} \times 0.011 \text{ lb-NO}_x/\text{MMBtu} \times 8,760 \text{ hr/yr} = 11,756 \text{ lb-NO}_x/\text{year}$$

12. **S-525-36-10: 20 MMBtu/hr Line with Baghouses**

This permit unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. The permit unit was evaluated for PM<sub>10</sub> in the previous TV renewal. Therefore, a CAM discussion is not required for this permit.

13. **S-525-37-5: Powdered Milk Bagging Operation with Baghouse**

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC. The permit unit was evaluated for PM<sub>10</sub> in the previous TV renewal; therefore, a CAM discussion is not required for this permit.

14. **S-525-38-6: Powder Storage Silo With Bin Vent Filter**

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC. The permit unit was evaluated for PM<sub>10</sub> in the previous TV renewal; therefore, a CAM discussion is not required for this permit.

15. **S-525-39-9: Powder Storage Silo With Bin Vent Filters**

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC. The permit unit was evaluated for PM<sub>10</sub> in the previous TV renewal; therefore, a CAM discussion is not required for this permit.

**16. S-525-41-4: Vacuum System**

This permit unit does not have an emissions limit. Therefore, the permit unit is not subject to CAM.

**17. S-525-42-5: 180 MMBtu/hr Boiler**

This permit unit has emissions limits for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC but it does not have add-on controls for these criteria pollutants. Therefore, this permit unit is not subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

This permit may be subject to CAM for NO<sub>x</sub> since there is a NO<sub>x</sub> limit, and it has add-on controls in the form of FGR. However, the pre-control NO<sub>x</sub> potential to emit is less than the major source threshold of 20,000 pounds NO<sub>x</sub>/year as shown below. Therefore, this unit is not subject to CAM.

AP-42 Table 1.4-1 (7/98) lists the following emissions factors for Large Wall-Fired Boilers (>100 MMBtu/hr)

	Emissions Factor (lb/10 <sup>6</sup> scf)
Controlled – low NO <sub>x</sub> burners	140
Controlled – Low NO <sub>x</sub> burners/Flue gas recirculation	100

The boiler is limited to 7 ppmv-NO<sub>x</sub> @ 3% O<sub>2</sub> (0.0085 lb-NO<sub>x</sub>/MMBtu)

The control efficiency of FGR and corresponding emissions factor are

$$1 - 100/140 = 29\%$$

$$0.0085/(1 - 0.29) = 0.012 \text{ lb/MMBtu}$$

The pre "add-on control" emissions are:

$$0.012 \text{ lb/MMBtu} \times 180 \text{ MMBtu/hr} \times 8760 \text{ hr/yr} \times \text{ton}/2000 \text{ lb}$$

$$= 9.4 \text{ tons/yr} < 10 \text{ tons/yr}$$

**18. S-525-43-3: Milk Spray Dryer**

This unit is subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> limit, it has add-on controls in the form of baghouses, and the pre-control PM<sub>10</sub> potential to emit is greater than the major source threshold of 140,000 pounds PM<sub>10</sub>/year as shown below.

The permit specified PM<sub>10</sub> emissions limit from the baghouses serving the milk spray dryer is 0.344 lb/ton of milk powder. The permit specified milk powder throughput is 192 ton/day. The baghouses and bin vent filters are assumed to have a PM<sub>10</sub> control efficiency of 99%. Therefore, uncontrolled PM<sub>10</sub> emissions are calculated as follows:

$$0.344 \text{ lb-PM}_{10}/\text{ton} \div (1 - 0.99) = 34.4 \text{ lb-PM}_{10}/\text{ton}$$
$$34.4 \text{ lb-PM}_{10}/\text{ton} \times 192 \text{ ton/day} \times 365 \text{ day/yr} = 2,410,752 \text{ lb-PM}_{10}/\text{yr}$$

In order to determine if a 15-minute monitoring interval is required, we will determine if post-control emissions also exceed the Major Source threshold for PM<sub>10</sub> emissions:

$$0.344 \text{ lb-PM}_{10}/\text{ton} \times 192 \text{ ton/day} \times 365 \text{ day/yr} = 24,108 \text{ lb-PM}_{10}/\text{yr}$$

Since the post-control annual emissions do not exceed the Major Source threshold for PM<sub>10</sub> of 140,000 lb/year, a once-daily monitoring interval is sufficient to determine compliance with CAM.

The facility has proposed to meet the CAM requirements for this unit by checking for any visible emissions on a daily basis,.

Conditions 13, 19 and 20 on the proposed PTO ensure compliance.

**19. S-525-46-2: Cartridge and Sock-Type Air Filtration System for Cleaning the Technopak Dry Milk Packaging Operation**

This unit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> limit and it has add-on controls in the form of a HEPA filter. However, the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 pounds PM<sub>10</sub>/year as shown below. Therefore, this unit is not subject to CAM.

The permit specified PM<sub>10</sub> emissions limit from the cartridge and sock-type air filtration system is 2.0 lb-PM<sub>10</sub>/day. The cartridge and sock-type air filtration system is assumed to have a PM<sub>10</sub> control efficiency of 99%. Therefore, uncontrolled pm<sub>10</sub> emissions are calculated as follows:

$$(2.0 \text{ lbPM}_{10}/\text{day})/(1 - 0.99)(365 \text{ day/yr}) = 73,000 \text{ lb-PM}_{10}/\text{yr}$$

**20. S-525-47-2: Dry Powder Storage Silo**

This unit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> limit and it has add-on controls in the form of a bin vent filter. However, the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 pounds PM<sub>10</sub>/year as shown below. Therefore, this unit is not subject to CAM.

The permit specified PM<sub>10</sub> emissions limit from the operation is 0.015 lb/ton of dry powder. The permit specified dry powder throughput is 180 ton/day. The bin vent filter is assumed to have a PM<sub>10</sub> control efficiency of 99%. Therefore, uncontrolled PM<sub>10</sub> emissions are calculated as follows:

$$[(0.015 \text{ lb-PM}_{10}/\text{ton}) \div (1 - 0.99)] \times 180 \text{ ton/day} \times 365 \text{ day/yr} = 98,550 \text{ lb-PM}_{10}/\text{yr}$$

**21. S-525-48-2: Dry Powder Storage Silo**

This unit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> limit and it has add-on controls in the form of a bin vent filter. However, the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 pounds PM<sub>10</sub>/year as shown below. Therefore, this unit is not subject to CAM.

The permit specified PM<sub>10</sub> emissions limit from the operation is 0.015 lb/ton of dry powder. The permit specified dry powder throughput is 180 ton/day. The bin vent filter is assumed to have a PM<sub>10</sub> control efficiency of 99%. Therefore, uncontrolled PM<sub>10</sub> emissions are calculated as follows:

$$[(0.015 \text{ lb-PM}_{10}/\text{ton}) \div (1 - 0.99)] \times 180 \text{ ton/day} \times 365 \text{ day/yr} = 98,550 \text{ lb-PM}_{10}/\text{yr}$$

**22. S-525-51-1: 182 MMBtu/hr Boiler**

The proposed boiler satisfies the above requirements to be subject to CAM. However, 40 CFR Subpart Db monitoring requirements satisfy the CAM requirements. 40 CFR Subpart Db is post 11/15/90 and therefore its required monitoring satisfies CAM requirements.

**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 does not propose to use any model general permit templates.

**X. CALIFORNIA ENVIRONMENTAL QUALITY ACT**

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

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

**XI. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

**ATTACHMENTS**

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

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: S-525-0-5

EXPIRATION DATE: 10/31/2020

## FACILITY-WIDE REQUIREMENTS

1. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {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
3. {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
4. {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
5. {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
6. {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
7. {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
8. {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
9. {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

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: LAND O' LAKES INC  
Location: 400 SOUTH M ST, TULARE, CA 93274  
S-525-0-5 : Feb 27 2020 7:00AM - KLEVANNND

10. {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
11. {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
12. {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
13. {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
14. {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
15. {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
16. {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
17. {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
18. {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
19. {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
20. {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
21. {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

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



22. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
23. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
24. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
25. {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
26. {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
27. {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
28. {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
29. {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
30. {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
31. {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
32. {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
33. {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
34. {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

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

35. {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
36. {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
37. {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
38. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
39. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 14 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
41. {118} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. The facility shall maintain a risk management plan (RMP) as required by 40 CFR 68. The facility shall certify compliance as part of the annual certification as required by 40 CFR part 70. [40 CFR 68] 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-525-3-11

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

DRYER #4 SERVED BY A MARRIOT WALKER REVERSE PULSE BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
5. Process weight rate of powdered milk produced shall not exceed 66 tons/day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
6. PM10 emissions from drier shall not exceed 0.344 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Visible emissions from the exhaust of the dust collector serving the drying operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All ducting from the drying operations to the baghouse shall be properly maintained to prevent fugitive dust emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The baghouse shall be equipped with an operational pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. The owner/operator shall check for visible emissions on a weekly basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. The baghouses shall operate at all times with a minimum differential pressure of 0.1 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records of baghouse maintenance, inspections, repair, and all change outs of filter media, 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, 9.4.2] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of dried milk powder produced in ton per day and operating schedule in number of hours per day, number of days per week, and number of weeks per calendar year. [District Rule 1070] 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 Rules 1070 and 4309] 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-525-11-5

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

34,034 GALLON DRY POWDER STORAGE SILO #1

**EXPIRATION DATE:** 10/31/2020

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## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
4. Records of bin vent filter 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, 9.4.2] 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-525-12-5

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

34,034 GALLON DRY POWDER STORAGE SILO #2

**EXPIRATION DATE:** 10/31/2020

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## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
4. Records of bin vent filter 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, 9.4.2] 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-525-13-5

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

34,034 GALLON DRY POWDER STORAGE SILO #3

**EXPIRATION DATE:** 10/31/2020

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## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
4. Records of bin vent filter 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, 9.4.2] 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-525-14-5

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

26,399 GALLON DRY POWDER STORAGE SILO #4

**EXPIRATION DATE:** 10/31/2020

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## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall maintain and operate fabric filters in accordance with the manufacturer's specifications. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
5. Records of bin vent filter 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, 9.4.2] 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-525-30-17

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

28 MMBTU/HR NATURAL GAS-FIRED NON-FAT MILK PROCESSING LINE

## PERMIT UNIT REQUIREMENTS

1. Line shall be equipped with one "Niro" tall form 28 MMBtu/hr. spray dryer including "Maxon" Cross Fire PUC quality natural gas fired burner with non-resettable totalizing fuel flowmeter, and two "Niro" baghouses, each with 7,276 sq. ft. cloth area and maximum of 101,848 total scfm air flow. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Line shall include two 300,000 lb storage bins each shall be served by "Nucon" bin vent filters, each with 71.5 sq. ft. area 16oz. glazed polyester felt bags, and maximum 535 scfm. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Line shall include one bagging system and shall be served by one "Flex Kleen" Baghouse (shared with S-525-37), Model WSTC121, 1282 sq. ft. cloth area, 12000 scfm. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The amount of milk powder produced shall not exceed 180 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. The owner/operator shall check for visible emissions on a daily basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rules 4201, 4202, and 2520, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
8. Visible emissions shall be less than 5% opacity for bagging system or storage silos during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
9. This dryer shall be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
10. NOx emissions shall not exceed 4.9 ppmvd @ 19% O2 referenced as NO2. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
11. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
12. CO emissions shall not exceed 42 ppmvd @ 19% O2. [District Rules 2201 and 4309] 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. VOC emissions shall not exceed 0.006 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. PM10 emissions from baghouses serving milk spray dryer shall not exceed 0.440 pounds per ton of dried milk powder produced. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM10 emissions from baghouse serving powdered milk bagging system shall not exceed 0.004 pounds per ton of dried milk powder processed. [District Rule 2201] Federally Enforceable Through Title V Permit
16. PM10 emissions from bin vent filters serving two 300,000 lb storage bins shall not exceed 0.015 pounds per ton of dried milk powder processed. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
21. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4309. [District Rule 4309] Federally Enforceable Through Title V Permit
22. Source testing to measure NOx and CO emissions from this unit when fired on natural gas shall be conducted annually for each exhaust stack. If compliance is shown for two consecutive annual tests, then testing may be performed once every 24 months. If compliance is not shown, annual testing shall resume. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
23. Source testing to measure PM10 emissions from the baghouse serving the spray dryer shall be conducted annually. If compliance is shown for two consecutive annual tests, then testing may be performed once every 36 months. If compliance is not shown, annual testing shall resume. [District Rule 1080] Federally Enforceable Through Title V Permit
24. For NOx and CO emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309] Federally Enforceable Through Title V Permit
25. For PM10 emissions source testing, three one-consecutive-hour test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 1080] Federally Enforceable Through Title V Permit
26. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rule 4309] Federally Enforceable Through Title V Permit
27. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
28. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
29. Stack gas velocities shall be determined using EPA Method 2. [District Rule 4309] Federally Enforceable Through Title V Permit
30. Stack gas moisture content shall be determined using EPA Method 4 [District Rule 4309] 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. Source testing to measure PM10 emissions from the baghouse serving the spray dryer shall be conducted using EPA Methods 201A and 202. Alternatively, the results of a total particulate matter test using CARB Method 5 may be used to demonstrate compliance with the PM10 emission limit provided the results include both the filterable (front half) and condensable (black half) particulates, and that all particulate matter is assumed to be PM10. [District Rule 1080] Federally Enforceable Through Title V Permit
32. All test results for NOx and CO shall be reported in ppmv @ 19% O2 (or no correction if measured above 19% O2), corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit
33. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
34. 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
35. The owner/operator shall visually inspect the burner on a weekly basis to assure proper operation. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
37. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month using a portable emission monitor (or at least once per week if an in-stack analyzer is used) that meets District specifications (in which a source test is not performed). Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4309] Federally Enforceable Through Title V Permit
38. If either the NOx or CO concentrations corrected to 19% O2, as measured by the portable analyzer (or in-stack analyzer), exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer (or in-stack analyzer) readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
39. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4309] Federally Enforceable Through Title V Permit
40. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 19% O2 (or no correction if measured above 19% O2), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4309] Federally Enforceable Through Title V Permit
41. Actual fuel usage and production data shall be recorded during the source test periods. [District Rule 1081] 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.

42. Records of baghouse maintenance, inspections, repair, and burner flame inspections 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, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
43. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
44. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9. [40 CFR 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 Part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit
46. Permittee shall maintain records of dried milk powder produced in ton per day, dried milk powder transported to silos in ton per day, milk powder bagged in ton per day, and operating schedule in number of hours per day, number of days per week, and number of weeks per calendar year. [District Rule 1070] Federally Enforceable Through Title V Permit
47. The operator shall maintain daily records of the total hours of operation and the type & quantity of fuel used during operations. [District Rule 4309] Federally Enforceable Through Title V Permit
48. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309] 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-525-31-6

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

750 BHP CUMMINS MODEL VTA28681 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the type of fuel used, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 407 (Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ do not apply to this source because the source did not commence construction or reconstruction after December 19, 2002. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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-525-32-6

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

435 BHP CUMMINS MODEL NTA-855-GS DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the type of fuel used, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 407 (Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ do not apply to this source because the source did not commence construction or reconstruction after June 12, 2006. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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-525-33-6

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

900 BHP CUMMINS DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the type of fuel used, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 407 (Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ do not apply to this source because the source did not commence construction or reconstruction after December 19, 2002. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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-525-35-11

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

122 MMBTU/HR NATURAL GAS-FIRED BOILER WITH FLUE GAS RECIRCULATION, JOHN ZINK TODD RMB MODEL TI450IGO3650X LOW NOX BURNER AND OXYGEN CONTROLLER

## PERMIT UNIT REQUIREMENTS

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Only PUC quality natural gas shall be combusted in this unit. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub>, 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.005 lb-PM<sub>10</sub>/MMBtu, 81 ppmvd CO @ 3% O<sub>2</sub>, or 0.0014 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
4. Flue gas recirculation system shall be operational at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> shall be measured at least on a monthly basis using District approved portable analyzers. [District Rules 4305, 4306, 4351, 4320, and 2520 9.3.2] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, 4351, 4320, and 2520 9.3.2] Federally Enforceable Through Title V Permit
7. If either the NO<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

8. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. Unit shall be source tested for NO<sub>x</sub> and CO to measure natural gas-combustion NO<sub>x</sub> and CO emissions from this unit within 60 days of startup. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Source testing to measure natural gas-combustion NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081,7.2] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
16. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
17. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)] Federally Enforceable Through Title V Permit
18. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [District Rule 2520, 9.3.2; 4305, 6.2.1; 4306, 4320, and 4351, 6.2.1] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

22. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
24. Operator shall monitor and record for each unit the hhv and cumulative annual use of fuel. [District Rules 4351, 6.1.1, 4320, and 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rules 2520, 9.3.2, and 4320] Federally Enforceable Through Title V Permit
26. Operator shall maintain all records for at least five years and conform to the recordkeeping requirements described in District Rule 2520. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), Rule 408 (Fresno), Rule 408.2 (Merced) and 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin); Rule 402(Madera) and 404 (all seven remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 and 409 (Kern), and 408 (all six remaining counties in the San Joaquin Valley); Rule 404 (Madera) 406 (Fresno), and 407 (all six remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
29. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201, 4301, 4305, 4306, and 4351. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
30. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
31. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40b do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
32. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-36-11

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

20 MMBTU/HR NATURAL GAS-FIRED MILK SPRAY PROCESSING LINE SERVED BY TWO NIRO CMC 3150 CYCLONES SERVED BY TWO NIRO SBF-12-500 BAGHOUSES EACH WITH 5,400 SQUARE FEET CLOTH AREA AND 37,820 SCFM BLOWERS

## PERMIT UNIT REQUIREMENTS

1. Line shall include Niro F-160 rotary atomizer with high pressure type NVR/F nozzle atomization unit and Niro-Soavi high pressure pump. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Line shall include air supply fan, dry cell/high efficiency air filter, Maxon LN 20 MM Btu/hr low NOx direct gas fired heater, type DAR air dispenser, cooling air fan, conveying air fan, on/off damper, steam-heated air heater and air filter. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Line shall include Niro CDC1000-R/N drying chamber assembly, integrated fluid bed and rotary valve. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Line shall be equipped with vibrofluidizer assembly including dry cell high efficiency pre-filter, two air conveying fans, six pneumatically controlled regulating dampers, two cartridge type air filters, two air conditioning units. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Line shall be equipped with vibrofluidizer assembly including one VF-F 16m2 vibrofluidizer, Niro CHE 2250 cyclone, blow-through valve and two powder sieves. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Line shall be equipped with fines transport system including rotary air conveying blower, cartridge type air filter, four blow through valves and two-way diverter valve. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Line shall be equipped with pneumatic powder conveying system including rotary air conveying blower, air conditioning unit, cartridge type air filter, blow-through valve, powder conveying duct and two way diverter valve. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [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. The owner/operator shall check for visible emissions on a daily basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rules 4201, 4202, and 2520, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
14. Visible emissions from the exhaust of the emissions control equipments shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
15. This dryer shall be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
16. NO<sub>x</sub> emissions shall not exceed 5.3 ppmvd @ 19% O<sub>2</sub> referenced as NO<sub>2</sub>. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
17. SO<sub>x</sub> emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
18. CO emissions shall not exceed 42 ppmvd @ 19% O<sub>2</sub>. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
19. VOC emissions shall not exceed 0.0028 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
20. PM<sub>10</sub> emissions shall not exceed 0.344 pounds per ton of milk powder produced. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The amount of dried milk powder produced shall not exceed 180 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4309. [District Rule 4309] Federally Enforceable Through Title V Permit
23. If equipment is operating at a level not representative of design capacity during initial source testing, the District may require subsequent testing at higher rates of production. [District Rule 1081] Federally Enforceable Through Title V Permit
24. Source testing to measure NO<sub>x</sub> and CO emissions from this unit when fired on natural gas shall be conducted annually for each exhaust stack. If compliance is shown for two consecutive annual tests, then testing may be performed once every 24 months. If compliance is not shown, annual testing shall resume. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
25. Source testing to measure PM<sub>10</sub> emissions from the baghouse serving the spray dryer shall be conducted annually. If compliance is shown for two consecutive annual tests, then testing may be performed once every 36 months. If compliance is not shown, annual testing shall resume. [District Rule 1080] Federally Enforceable Through Title V Permit
26. For NO<sub>x</sub> and CO emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309] Federally Enforceable Through Title V Permit
27. For PM<sub>10</sub> emissions source testing, three one-consecutive-hour test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 1080] Federally Enforceable Through Title V Permit
28. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rule 4309] 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. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
30. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
31. Stack gas velocities shall be determined using EPA Method 2. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
32. Stack gas moisture content shall be determined using EPA Method 4. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
33. Source testing to measure PM<sub>10</sub> emissions from the baghouse serving the spray dryer shall be conducted using EPA Methods 201A and 202. Alternatively, the results of a total particulate matter test using CARB Method 5 may be used to demonstrate compliance with the PM<sub>10</sub> emission limit provided the results include both the filterable (front half) and condensable (black half) particulates, and that all particulate matter is assumed to be PM<sub>10</sub>. [District Rule 1080] Federally Enforceable Through Title V Permit
34. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
35. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
36. All test results for NO<sub>x</sub> and CO shall be reported in ppmv @ 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit
37. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month using a portable emission monitor (or at least once per week if an in-stack analyzer is used) that meets District specifications (in which a source test is not performed). Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4309] Federally Enforceable Through Title V Permit
38. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub>, as measured by the portable analyzer (or in-stack analyzer), exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer (or in-stack analyzer) readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
39. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4309] Federally Enforceable Through Title V Permit
40. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4309] 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.



41. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be repaired as needed. [District Rule 2520, 9.4.2, 40 CFR 64] Federally Enforceable Through Title V Permit
42. The permittee shall visually inspect the burner on a weekly basis to assure proper operation. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Actual fuel usage and production data shall be recorded during the source test periods. [District Rule 1081] Federally Enforceable Through Title V Permit
44. The operator shall maintain daily records of the total hours of operation and the type & quantity of fuel used during operations. [District Rule 4309] Federally Enforceable Through Title V Permit
45. Records of baghouse maintenance, inspections, repair, and burner flame inspections 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, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
46. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
47. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit
48. 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 Part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit
49. Permittee shall maintain records of dried milk powder produced in ton per day, and operating schedule in number of hours per day, number of days per week, and number of weeks per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
50. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-37-6

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

POWDERED MILK BAGGING OPERATION SERVED BY FLEX KLEEN BAGHOUSE (SHARED WITH S-525-30) MODEL WSTC121 WITH 1282 SQ. FT. CLOTH AREA AND 12,000 SCFM BLOWER

## PERMIT UNIT REQUIREMENTS

1. Line shall include one Avapac powder packer not to exceed 25 electric hp and two Control and Metering Ltd bulk baggers not to exceed 75 total hp. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Total maximum dried milk powder bagged shall not exceed 500 ton/day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Emission rates shall not exceed 0.004 lb PM10/ton of product bagged. [District NSR Rule and Rule 4202] Federally Enforceable Through Title V Permit
4. Visible emissions shall be less than 5% opacity. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The owner/operator shall maintain records of quantity of dried milk powder bagged for each day of operation, in the format approved by the District. [District NSR Rule; Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. The owner/operator shall check for visible emissions on a weekly basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
8. Baghouse collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Baghouse collector bags shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. The baghouse shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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15. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Records of dust collector maintenance, inspection, 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, 9.4.2] Federally Enforceable Through Title V Permit
19. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-38-7

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

50,000 GALLON DRY POWDER STORAGE SILO #6 SERVING DRYER #1 (S-525-36) WITH NUCON BIN VENT FILTER WITH 71.5 SQUARE FEET OF CLOTH AREA AND MAXIMUM FLOW OF 535 SCFM

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo #6 (S-525-38) and Silo #7 (S-525-39) shall not exceed 192 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-39-10

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

57,000 GALLON POWDER STORAGE SILO WITH TWO NUCON BIN VENT FILTERS; RECEIVING POWDER ONLY FROM S-525-43 AND DISCHARGING ONLY TO BAGGING OPERATIONS S-525-30, '-37, AND '-44

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo #6 (S-525-38) and Silo #7 (S-525-39) shall not exceed 192 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-525-41-5

EXPIRATION DATE: 10/31/2020

## EQUIPMENT DESCRIPTION:

"MIKRO-PULSAIRE" VACUUM SYSTEM SERVING DRYERS #4 AND 5 (S-525-3 AND -10) AND BAGGERS (S-525-30 & -37) IN THE BAGGING WAREHOUSE, CONSISTING OF A DUST HOPPER, HOFFMAN ROTARY BLOWER, FILTER ASSEMBLY AND PIPED DISCHARGE TO A 55 GALLON DRUM

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
3. 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, 9.3.2] Federally Enforceable Through Title V Permit
4. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. 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, 9.4.2] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-42-6

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

180 MMBTU/HR UNION IRON WORKS NATURAL GAS FIRED BOILER WITH RMB LOW NOX BURNER, FLUE GAS RECIRCULATION, AND A PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)

## PERMIT UNIT REQUIREMENTS

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1. Permittee shall comply with all applicable NSPS requirements, including monitoring, notification and reporting requirements as described in 40 CFR 60 Subparts A and Db. [District Rule 4001] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only PUC quality natural gas shall be combusted in this unit. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7 ppmvd-NO<sub>x</sub> @ 3% O<sub>2</sub>, 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, 50 ppmvd-CO @ 3% O<sub>2</sub> or 0.037 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
5. Flue gas recirculation system shall be operational at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
6. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
7. Source testing to measure natural gas-combustion NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. At all times the PEMS must be operated in accordance with the requirements contained in EPA Performance Specification 16 for Predictive Emissions Monitoring Systems and Amendments to Testing and Monitoring Provisions. See 56 Fed. Reg. 12575 (March 25, 2009). [District Rule 1080] Federally Enforceable Through Title V Permit
10. All records related to the operation of the PEMS that are required by NSPS Subpart Db and EPA Performance Specification 16 must be kept in a form suitable for inspection for a period of at least five (5) years. [District Rule 1080] Federally Enforceable Through Title V Permit
11. The sensor evaluation system must check the integrity of each PEMS input at least daily. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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12. The PEMS data is considered biased and must be adjusted if the arithmetic mean (d) is greater than the absolute value of the confidence coefficient (cc) in Equations 16.1 and 16.3 of EPA Performance Specification 16. In such cases, a bias factor must be used to correct the PEMS data. [District Rule 1080] Federally Enforceable Through Title V Permit
13. Permittee shall perform a RAA consisting of at least three 30-minute portable analyzer or RM determinations each quarter a RATA is not performed as specified in Section 9.3 of EPA Performance Specification 16. The average of the 3 portable analyzer or RM determinations must not differ from the simultaneous PEMS average value by more than 10 percent of the analyzer or RM value or the test is failed. [District Rule 1080] Federally Enforceable Through Title V Permit
14. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly RATA in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, you must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rule 1080] Federally Enforceable Through Title V Permit
15. The calculated F-value (as specified in Section 13.3 of EPA Performance Specification 16) shall not exceed the critical F-value at the 95-percent confidence level for the PEMS to be acceptable. [District Rule 1080] Federally Enforceable Through Title V Permit
16. The calculated r-value (as calculated in EPA Performance Specification 16) must be greater than or equal to 0.8 for the PEMS correlation to be acceptable. [District Rule 1080] Federally Enforceable Through Title V Permit
17. The PEMS relative accuracy (RA) must not exceed 10 percent if the PEMS measurements are greater than 100 ppm or 0.2 lb/MMBtu. The RA must not exceed 20 percent if the PEMS measurements are between 100 ppm (or 0.2 lb/MMBtu) and 10 ppm (or 0.05 lb/MMBtu). For measurements below 10 ppm, the absolute mean difference between the PEMS measurements and the RM measurements must not exceed 2 ppm. [District Rule 1080] Federally Enforceable Through Title V Permit
18. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201 and 4301] Federally Enforceable Through Title V Permit
21. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)] Federally Enforceable Through Title V Permit
22. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [District Rules 2520, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
23. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
25. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
26. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Operator shall monitor and record for each unit the hhv and cumulative annual use of fuel. [District Rules 4320, 4351, and 2520] Federally Enforceable Through Title V Permit
29. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520] Federally Enforceable Through Title V Permit
30. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), Rule 408 (Fresno), Rule 408.2 (Merced) and 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin); Rule 402(Madera) and 404 (all seven remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
31. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 and 409 (Kern), and 408 (all six remaining counties in the San Joaquin Valley); Rule 404 (Madera) 406 (Fresno), and 407 (all six remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201, 4301, 4305, 4306, and 4351. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
33. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). [District Rule 2520] Federally Enforceable Through Title V Permit
34. The requirements of 40 CFR 72.6(b) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit
35. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-43-4

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

NIRO CDP-1250-N MILK SPRAY DRYER WITH 16,000 LB/HR CAPACITY SERVED BY GEA PROCESS ENGINEERING MODELS 61071-732001-011 (BAGHOUSE #1) AND 61071-732002-011 (BAGHOUSE 2) AND GEA PROCESS ENGINEERING MODEL 61071-763001-011 COOLING CONVEYING BAGHOUSE

## PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
5. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
8. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
10. A spare set of bags for the largest module in the baghouse shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Visible emissions from baghouse serving dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The baghouses shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
13. The baghouses shall operate at all times with a minimum differential pressure of 0.1 inches water column and a maximum differential pressure of 10 inches water column. [District Rules 2201 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

14. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Process weight rate of powdered milk produced shall not exceed 192 tons/day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
17. PM10 emissions from drier shall not exceed 0.344 lb/ton dry milk powder produced. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Initial source testing to measure PM10 emissions using EPA Method 201A shall be conducted within 60 days of initial start-up of the dryer unless startup source testing has been conducted pursuant to ATC S-525-43-0. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Records of baghouse maintenance, inspections, repair, and all change outs of filter media, 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, 9.4.2] Federally Enforceable Through Title V Permit
21. Daily records of the weight of powdered milk produced (dry weight) shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
22. Records of all maintenance of the baghouses, including all change outs of filter media, shall be retained on-site and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] 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-525-44-4

EXPIRATION DATE: 10/31/2020

## EQUIPMENT DESCRIPTION:

26,000 LB/HR POWDERED MILK BAGGING OPERATION SERVED BY DONALDSON DUST COLLECTOR AND VACUUM DENSE CONVEYING SYSTEM SERVED BY SOLBERG INLINE HEPA FILTER AND AMT 16 PORSTEX II FILTER

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. The dust collector shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Visible emissions from dust collector serving dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The dust collector shall operate at all times with a minimum differential pressure of 0.4 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Process weight rate of dried powdered milk packaging operation shall not exceed 312 tons/day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM10 emissions from dried powdered milk packaging operation shall not exceed 0.004 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Initial source testing to measure PM10 emissions using EPA Method 201A shall be conducted within 60 days of initial start-up of the packaging operation unless startup source testing has been conducted pursuant to ATC S-525-44-0. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Daily records of the weight of dried powdered milk packaged (dry weight) shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
18. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] 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-525-46-3

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

20 HP AMERICAN VACUUM COMPANY MODEL PD5LPKG CARTRIDGE AND SOCK-TYPE AIR FILTRATION SYSTEM FOR CLEANING THE TECHNPAK DRY MILK PACKAGING OPERATION

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.02 grains/dscf in concentration. [District Rules 2201 & 4201] Federally Enforceable Through Title V Permit
3. Visible emissions shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rules 2201] Federally Enforceable Through Title V Permit
4. PM10 emissions shall not exceed 2.0 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The system shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Replacement bags numbering at least 10% of the total number of bags and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All ducting shall be properly maintained to prevent fugitive dust emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The system shall be equipped with an operational pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201]
11. Differential operating pressure shall be monitored and recorded on each day that the system operates. [District Rule 2201]
12. Records of all maintenance including all change outs of filter media, shall be maintained. [District Rule 2201]
13. {3723} All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-47-3

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

25,689 GALLON DRY POWDER STORAGE SILO PS11 WITH NUCON BIN VENT FILTER

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## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo S-525-47 and Silo S-525-48 shall not exceed 180 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] 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-525-48-3

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

25,689 GALLON DRY POWDER STORAGE SILO PS12 WITH NUCON BIN VENT FILTER

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## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo S-525-47 and Silo S-525-48 shall not exceed 180 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] 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-525-51-2

EXPIRATION DATE: 10/31/2020

## EQUIPMENT DESCRIPTION:

182 MMBTU/HR BABCOCK AND WILCOX COMPANY NATURAL GAS FIRED BOILER WITH COEN/TODD VARIFLAME LOW NOX BURNER (OR EQUIVALENT), CATASTAK SCR SYSTEM (OR EQUIVALENT), AND A PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)

## PERMIT UNIT REQUIREMENTS

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1. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4201] Federally Enforceable Through Title V Permit
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized, and maintained. [40 CFR 60.49 b(d)(1)] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Except during startup and shutdown, emissions rates from the natural gas-fired unit shall not exceed any of the following limits: 5 ppmv NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.0061 lb-NO<sub>x</sub>/MMBtu, 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, 50 ppmv CO @ 3% O<sub>2</sub> or 0.037 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. NO<sub>x</sub> emissions limits shall not exceed 0.1 lb NO<sub>x</sub>/MMBtu for low heat release rate (< 70,000 Btu/hr ft<sup>2</sup>) and 0.2 lb NO<sub>x</sub>/MMBtu for low heat release rate (> 70,000 Btu/hr ft<sup>2</sup>) pursuant to 40 CFR 60.44b(a). This limit applies at all times including startups, shutdowns, and malfunctions pursuant to CFR 60.42b(h). Compliance with these limits is determined on a 24-hr average basis for the initial performance test and on a 3 hour average basis for subsequent performance tests pursuant to 40 CFR 60.44b(j). [40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
9. The ammonia (NH<sub>3</sub>) emissions shall not exceed 10 ppmvd @ 3% O<sub>2</sub>. [District Rule 4102] Federally Enforceable Through Title V Permit
10. During startup or shutdown, the emissions control system shall be in operation, and emissions shall be minimized to the extent technically possible. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
11. Startup and shutdown shall not exceed 2 hrs per occurrence. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
12. If CEMS is installed, unit shall comply with the emission monitoring requirements as specified in 40 CFR Part 60.48b. [District Rule 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.

13. PEMS shall meet the requirements in 40 CFR 60, Performance Specifications 16 (PS-16) except as modified by this permit, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [40 CFR Subpart Db, 40 CFR Part 64, Rule 4320, and, District Rule 1080] Federally Enforceable Through Title V Permit
14. At all times the PEMS must be operated in accordance with the requirements contained in EPA Performance Specification 16 for Predictive Emissions Monitoring Systems and Amendments to Testing and Monitoring Provisions. [District Rule 1080] Federally Enforceable Through Title V Permit
15. The owner or operator shall install, certify, maintain, operate and quality-assure a PEMS which continuously predicts and records the exhaust gas NO<sub>x</sub>, CO and O<sub>2</sub> concentrations. Predictive emissions monitor(s) shall be capable of predicting emissions during normal operating conditions. PEMS results during startup and shutdown events shall be predicted using startup emission rates obtained from the initial performance source testing to determine compliance with emission limits contained in this permit. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
16. Relative Accuracy Test Audit (RATA) must be conducted annually as specified in PS-16, Section 8.2 and must include 9 RM (Reference Method e.g. EPA Method 7c for NO<sub>x</sub>) tests at each of low, medium, and high operating levels. Relative accuracy (RA) calculations using RM and PEMS data from the 3-level tests must be done using equations specified in PS-16, Section 12.2. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
17. PEMS RA must not exceed 10 percent if the PEMS measurements are greater than 100 ppm or 0.2 lb/MMBtu. The RA must not exceed 20 percent if the PEMS measurements are between 100 ppm (or 0.2 lb/MMBtu) and 10 ppm (or 0.05 lb/MMBtu). For measurements below 10 ppm, the absolute mean difference between the PEMS measurements and the RM measurements must not exceed 2 ppm. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Permittee shall perform a relative accuracy audit (RAA) consisting of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. The average of the 3 portable analyzer determinations must not differ from the simultaneous PEMS average value by more than 2 ppmv. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
19. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly (RATA) in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, permittee must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
20. Statistical tests as specified PS-16, Section 8.3 including bias test, F-test, and correlation analysis must be used to evaluate paired RA and RM data for demonstration of continual compliance. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
21. The PEMS data is considered biased and must be adjusted if the arithmetic mean (d) is greater than the absolute value of the confidence coefficient (cc) in Equations 16.1 and 16.3 of EPA Performance Specification 16. In such cases, a bias factor must be used to correct the PEMS data. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The calculated F-value (as specified in Section 13.3 of EPA Performance Specification 16) shall not exceed the critical F-value at the 95-percent confidence level for the PEMS to be acceptable. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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23. Operator shall perform a correlation analysis using the RA paired data from all operating levels combined to determine how well the RM and PEMS correlate. Use the equations in Section 12.3.3. The correlation is waived if the process cannot be varied to produce a concentration change sufficient for a successful correlation test because of its technical design. In such cases, should a subsequent RATA identify a variation in the RM measured values by more than 30 percent, the waiver will not apply, and a correlation analysis test must be performed at the next RATA. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64]
24. If PEMS fails to pass a quarterly RAA or yearly RATA test, or if changes are made that could result in a significant change in the emissions rate (e.g. process modification, new process operating modes, or changes to emission controls) the PEMS must be recertified by the earlier of 60 operating days or 180 calendar days after the failed RATA or after the change that has caused a significant change in emission rate as specified in PS-16, Section 8.5. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
25. Source shall maintain a Quality Control Plan (QA plan) including the components specified by PS-16, Section 9.0 to verify that the system is generating quality assured data after the initial PEMS certification test. QA plan shall include QA/QC summary of ongoing tests (listed in PS-16 Section 9.1 Table), daily sensor evaluation checks, quarterly RAAs, and yearly RATA. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The operator shall monitor the ammonia injection rate during PEMS breakdowns to demonstrate NOx emission compliance. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
27. The PEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
28. PEMS emission measurements shall be averaged over a period of 15 consecutive minutes to demonstrate compliance with the applicable emission limits. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
29. The PEMS data shall be reduced to hourly averages as specified in 40 CFR 60.13(h), or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
30. The nitrogen oxide NOx emission rates measured by the PEMS shall be expressed in lb/million Btu or ppmv @ 3% O<sub>2</sub>. The 1-hour average emission rates shall be calculated using the data points required under Section 60.13(h)(2). The records shall also include a daily emission rate consisting of an averaged 24 hour rolling emission rate. [District Rule 2201; 40 CFR 60.48b (d) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
31. The owner or operator shall maintain PEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [40 CFR 60.7(b), and District Rule 1080] Federally Enforceable Through Title V Permit
32. Permittee shall submit a PEMS written report for each calendar quarter to the District. The report is due on the 30th day following the end of the calendar quarter. Quarterly report shall include: time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; applicable time and date of each period during which the PEMS was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [40 CFR Subpart Db, 40 CFR Part 64, District Rule 1080 and District 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.

33. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
34. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
35. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
36. Source testing to measure NH<sub>3</sub> slip from this unit shall be conducted at least once every twelve months or shall meet the alternate monitoring method established by mutual agreement with the District. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve months. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
37. For RATA, NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
38. For RATA, CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
39. For RATA, stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
40. For RATA, fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320] Federally Enforceable Through Title V Permit
41. For RATA, source testing for ammonia slip shall be conducted utilizing BAAQMD method ST-1B. [District Rule 2201] Federally Enforceable Through Title V Permit
42. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
43. For RATA, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
44. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
45. Permittee shall record the daily startup and shutdown duration times of the boiler. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
46. All records related to the operation of the PEMS that are required by NSPS Subpart Db, 40 CFR Part 64 and EPA Performance Specification 16 must be kept in a form suitable for inspection for a period of at least five (5) years. [District Rule 1080] Federally Enforceable Through Title V Permit
47. 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.

DRAFT

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# ATTACHMENT B

Previous Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: S-525-0-4

EXPIRATION DATE: 10/31/2020

## FACILITY-WIDE REQUIREMENTS

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1. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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

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: LAND O' LAKES INC  
Location: 400 SOUTH M ST, TULARE, CA 93274  
S-525-0-4 : Feb 26 2020 1:32PM - KLEVANNND

10. 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
11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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.

22. 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
23. 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
24. 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
25. 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
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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
32. 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
33. 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
34. 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.



35. 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
36. 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
37. 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
38. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 14 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
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. The facility shall maintain a risk management plan (RMP) as required by 40 CFR 68. The facility shall certify compliance as part of the annual certification as required by 40 CFR part 70. [40 CFR 68] 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-525-3-10

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

DRYER #4 SERVED BY A MARRIOT WALKER REVERSE PULSE BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
5. Process weight rate of powdered milk produced shall not exceed 66 tons/day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
6. PM10 emissions from drier shall not exceed 0.344 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Visible emissions from the exhaust of the dust collector serving the drying operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All ducting from the drying operations to the baghouse shall be properly maintained to prevent fugitive dust emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The baghouse shall be equipped with an operational pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. The owner/operator shall check for visible emissions on a weekly basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. The baghouses shall operate at all times with a minimum differential pressure of 0.1 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records of baghouse maintenance, inspections, repair, and all change outs of filter media, 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, 9.4.2] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of dried milk powder produced in ton per day and operating schedule in number of hours per day, number of days per week, and number of weeks per calendar year. [District Rule 1070] 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 Rules 1070 and 4309] 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-525-11-4

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

34,034 GALLON DRY POWDER STORAGE SILO #1

## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
4. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-12-4

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

34,034 GALLON DRY POWDER STORAGE SILO #2

## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
4. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-13-4

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

34,034 GALLON DRY POWDER STORAGE SILO #3

## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
4. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-14-4

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

26,399 GALLON DRY POWDER STORAGE SILO #4

## PERMIT UNIT REQUIREMENTS

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1. The owner/operator shall maintain and operate fabric filters in accordance with the manufacturer's specifications. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The owner/operator shall check for visible emissions weekly during silo loading . If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
5. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit

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

Facility Name: LAND O' LAKES INC

Location: 400 SOUTH M ST, TULARE, CA 93274

S-525-14-4 : Feb 26 2020 1:33PM -- KLEVANN

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-30-16

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

28 MMBTU/HR NATURAL GAS-FIRED NON-FAT MILK PROCESSING LINE

## PERMIT UNIT REQUIREMENTS

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1. Line shall be equipped with one "Niro" tall form 28 MMBtu/hr. spray dryer including "Maxon" Cross Fire PUC quality natural gas fired burner with non-resettable totalizing fuel flowmeter, and two "Niro" baghouses, each with 7,276 sq. ft. cloth area and maximum of 101,848 total scfm air flow. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Line shall include two 300,000 lb storage bins each shall be served by "Nucon" bin vent filters, each with 71.5 sq. ft. area 16oz. glazed polyester felt bags, and maximum 535 scfm. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Line shall include one bagging system and shall be served by one "Flex Kleen" Baghouse (shared with S-525-37), Model WSTC121, 1282 sq. ft. cloth area, 12000 scfm. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The amount of milk powder produced shall not exceed 180 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall comply with District Rule 4202, section 4.0 (12/17/92). [District Rule 4202] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. The owner/operator shall check for visible emissions on a daily basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rules 4201, 4202, and 2520, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
8. Visible emissions shall be less than 5% opacity for bagging system or storage silos during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
9. This dryer shall be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
10. NOx emissions shall not exceed 4.9 ppmvd @ 19% O2 referenced as NO2. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
11. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
12. CO emissions shall not exceed 42 ppmvd @ 19% O2. [District Rules 2201 and 4309] 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. VOC emissions shall not exceed 0.006 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. PM10 emissions from baghouses serving milk spray dryer shall not exceed 0.440 pounds per ton of dried milk powder produced. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM10 emissions from baghouse serving powdered milk bagging system shall not exceed 0.004 pounds per ton of dried milk powder processed. [District Rule 2201] Federally Enforceable Through Title V Permit
16. PM10 emissions from bin vent filters serving two 300,000 lb storage bins shall not exceed 0.015 pounds per ton of dried milk powder processed. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
21. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4309. [District Rule 4309] Federally Enforceable Through Title V Permit
22. Source testing to measure NOx and CO emissions from this unit when fired on natural gas shall be conducted annually for each exhaust stack. If compliance is shown for two consecutive annual tests, then testing may be performed once every 24 months. If compliance is not shown, annual testing shall resume. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
23. Source testing to measure PM10 emissions from the baghouse serving the spray dryer shall be conducted annually. If compliance is shown for two consecutive annual tests, then testing may be performed once every 36 months. If compliance is not shown, annual testing shall resume. [District Rule 1080] Federally Enforceable Through Title V Permit
24. For NOx and CO emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309] Federally Enforceable Through Title V Permit
25. For PM10 emissions source testing, three one-consecutive-hour test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 1080] Federally Enforceable Through Title V Permit
26. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rule 4309] Federally Enforceable Through Title V Permit
27. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
28. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
29. Stack gas velocities shall be determined using EPA Method 2. [District Rule 4309] Federally Enforceable Through Title V Permit
30. Stack gas moisture content shall be determined using EPA Method 4 [District Rule 4309] 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. Source testing to measure PM10 emissions from the baghouse serving the spray dryer shall be conducted using EPA Methods 201A and 202. Alternatively, the results of a total particulate matter test using CARB Method 5 may be used to demonstrate compliance with the PM10 emission limit provided the results include both the filterable (front half) and condensable (black half) particulates, and that all particulate matter is assumed to be PM10. [District Rule 1080] Federally Enforceable Through Title V Permit
32. All test results for NOx and CO shall be reported in ppmv @ 19% O2 (or no correction if measured above 19% O2), corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit
33. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
34. 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
35. The owner/operator shall visually inspect the burner on a weekly basis to assure proper operation. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
37. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month using a portable emission monitor (or at least once per week if an in-stack analyzer is used) that meets District specifications (in which a source test is not performed). Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4309] Federally Enforceable Through Title V Permit
38. If either the NOx or CO concentrations corrected to 19% O2, as measured by the portable analyzer (or in-stack analyzer), exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer (or in-stack analyzer) readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
39. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4309] Federally Enforceable Through Title V Permit
40. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 19% O2 (or no correction if measured above 19% O2), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4309] Federally Enforceable Through Title V Permit
41. Actual fuel usage and production data shall be recorded during the source test periods. [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.

42. Records of baghouse maintenance, inspections, repair, and burner flame inspections 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, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
43. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
44. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9. [40 CFR 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 Part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit
46. Permittee shall maintain records of dried milk powder produced in ton per day, dried milk powder transported to silos in ton per day, milk powder bagged in ton per day, and operating schedule in number of hours per day, number of days per week, and number of weeks per calendar year. [District Rule 1070] Federally Enforceable Through Title V Permit
47. The operator shall maintain daily records of the total hours of operation and the type & quantity of fuel used during operations. [District Rule 4309] Federally Enforceable Through Title V Permit
48. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309] 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-525-31-5

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

750 BHP CUMMINS MODEL VTA28681 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the type of fuel used, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 407 (Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ do not apply to this source because the source did not commence construction or reconstruction after December 19, 2002. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-32-5

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

435 BHP CUMMINS MODEL NTA-855-GS DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the type of fuel used, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 407 (Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ do not apply to this source because the source did not commence construction or reconstruction after June 12, 2006. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-33-5

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

900 BHP CUMMINS DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the type of fuel used, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 407 (Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ do not apply to this source because the source did not commence construction or reconstruction after December 19, 2002. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-35-10

**EXPIRATION DATE:** 10/31/2020

**SECTION:** 11 **TOWNSHIP:** 20S **RANGE:** 24E

**EQUIPMENT DESCRIPTION:**

122 MMBTU/HR NATURAL GAS-FIRED BOILER WITH FLUE GAS RECIRCULATION, JOHN ZINK TODD RMB MODEL TI450IGO3650X LOW NOX BURNER AND OXYGEN CONTROLLER

## PERMIT UNIT REQUIREMENTS

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Only PUC quality natural gas shall be combusted in this unit. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub>, 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.005 lb-PM<sub>10</sub>/MMBtu, 81 ppmvd CO @ 3% O<sub>2</sub>, or 0.0014 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
4. Flue gas recirculation system shall be operational at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The stack concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> shall be measured at least on a monthly basis using District approved portable analyzers. [District Rules 4305, 4306, 4351, 4320, and 2520 9.3.2] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, 4351, 4320, and 2520 9.3.2] Federally Enforceable Through Title V Permit
7. If either the NO<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

8. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. Unit shall be source tested for NO<sub>x</sub> and CO to measure natural gas-combustion NO<sub>x</sub> and CO emissions from this unit within 60 days of startup. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. Source testing to measure natural gas-combustion NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081,7.2] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
16. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
17. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)] Federally Enforceable Through Title V Permit
18. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [District Rule 2520, 9.3.2; 4305, 6.2.1; 4306, 4320, and 4351, 6.2.1] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

22. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
24. Operator shall monitor and record for each unit the hhv and cumulative annual use of fuel. [District Rules 4351, 6.1.1, 4320, and 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rules 2520, 9.3.2, and 4320] Federally Enforceable Through Title V Permit
26. Operator shall maintain all records for at least five years and conform to the recordkeeping requirements described in District Rule 2520. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), Rule 408 (Fresno), Rule 408.2 (Merced) and 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin); Rule 402(Madera) and 404 (all seven remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 and 409 (Kern), and 408 (all six remaining counties in the San Joaquin Valley); Rule 404 (Madera) 406 (Fresno), and 407 (all six remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
29. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201, 4301, 4305, 4306, and 4351. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
30. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
31. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40b do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
32. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-36-10

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

20 MMBTU/HR NATURAL GAS-FIRED MILK SPRAY PROCESSING LINE SERVED BY TWO NIRO CMC 3150 CYCLONES SERVED BY TWO NIRO SBF-12-500 BAGHOUSES EACH WITH 5,400 SQUARE FEET CLOTH AREA AND 37,820 SCFM BLOWERS

## PERMIT UNIT REQUIREMENTS

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1. Line shall include Niro F-160 rotary atomizer with high pressure type NVR/F nozzle atomization unit and Niro-Soavi high pressure pump. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Line shall include air supply fan, dry cell/high efficiency air filter, Maxon LN 20 MM Btu/hr low NOx direct gas fired heater, type DAR air dispenser, cooling air fan, conveying air fan, on/off damper, steam-heated air heater and air filter. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Line shall include Niro CDC1000-R/N drying chamber assembly, integrated fluid bed and rotary valve. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Line shall be equipped with vibrofluidizer assembly including dry cell high efficiency pre-filter, two air conveying fans, six pneumatically controlled regulating dampers, two cartridge type air filters, two air conditioning units. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Line shall be equipped with vibrofluidizer assembly including one VF-F 16m2 vibrofluidizer, Niro CHE 2250 cyclone, blow-through valve and two powder sieves. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Line shall be equipped with fines transport system including rotary air conveying blower, cartridge type air filter, four blow through valves and two-way diverter valve. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Line shall be equipped with pneumatic powder conveying system including rotary air conveying blower, air conditioning unit, cartridge type air filter, blow-through valve, powder conveying duct and two way diverter valve. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
9. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [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. The owner/operator shall check for visible emissions on a daily basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rules 4201, 4202, and 2520, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
14. Visible emissions from the exhaust of the emissions control equipments shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
15. This dryer shall be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
16. NOx emissions shall not exceed 5.3 ppmvd @ 19% O2 referenced as NO2. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
17. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
18. CO emissions shall not exceed 42 ppmvd @ 19% O2. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
19. VOC emissions shall not exceed 0.0028 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
20. PM10 emissions shall not exceed 0.344 pounds per ton of milk powder produced. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The amount of dried milk powder produced shall not exceed 180 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4309. [District Rule 4309] Federally Enforceable Through Title V Permit
23. If equipment is operating at a level not representative of design capacity during initial source testing, the District may require subsequent testing at higher rates of production. [District Rule 1081] Federally Enforceable Through Title V Permit
24. Source testing to measure NOx and CO emissions from this unit when fired on natural gas shall be conducted annually for each exhaust stack. If compliance is shown for two consecutive annual tests, then testing may be performed once every 24 months. If compliance is not shown, annual testing shall resume. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
25. Source testing to measure PM10 emissions from the baghouse serving the spray dryer shall be conducted annually. If compliance is shown for two consecutive annual tests, then testing may be performed once every 36 months. If compliance is not shown, annual testing shall resume. [District Rule 1080] Federally Enforceable Through Title V Permit
26. For NOx and CO emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309] Federally Enforceable Through Title V Permit
27. For PM10 emissions source testing, three one-consecutive-hour test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 1080] Federally Enforceable Through Title V Permit
28. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rule 4309] 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. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
30. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
31. Stack gas velocities shall be determined using EPA Method 2. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
32. Stack gas moisture content shall be determined using EPA Method 4. [District Rules 1080 and 4309] Federally Enforceable Through Title V Permit
33. Source testing to measure PM<sub>10</sub> emissions from the baghouse serving the spray dryer shall be conducted using EPA Methods 201A and 202. Alternatively, the results of a total particulate matter test using CARB Method 5 may be used to demonstrate compliance with the PM<sub>10</sub> emission limit provided the results include both the filterable (front half) and condensable (black half) particulates, and that all particulate matter is assumed to be PM<sub>10</sub>. [District Rule 1080] Federally Enforceable Through Title V Permit
34. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
35. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
36. All test results for NO<sub>x</sub> and CO shall be reported in ppmv @ 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit
37. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month using a portable emission monitor (or at least once per week if an in-stack analyzer is used) that meets District specifications (in which a source test is not performed). Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4309] Federally Enforceable Through Title V Permit
38. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub>, as measured by the portable analyzer (or in-stack analyzer), exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer (or in-stack analyzer) readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
39. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4309] Federally Enforceable Through Title V Permit
40. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4309] 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.

41. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be repaired as needed. [District Rule 2520, 9.4.2, 40 CFR 64] Federally Enforceable Through Title V Permit
42. The permittee shall visually inspect the burner on a weekly basis to assure proper operation. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Actual fuel usage and production data shall be recorded during the source test periods. [District Rule 1081] Federally Enforceable Through Title V Permit
44. The operator shall maintain daily records of the total hours of operation and the type & quantity of fuel used during operations. [District Rule 4309] Federally Enforceable Through Title V Permit
45. Records of baghouse maintenance, inspections, repair, and burner flame inspections 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, 9.4.2 and 40 CFR 64] Federally Enforceable Through Title V Permit
46. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
47. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit
48. 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 Part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit
49. Permittee shall maintain records of dried milk powder produced in ton per day, and operating schedule in number of hours per day, number of days per week, and number of weeks per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
50. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309] 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-525-37-5

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

POWDERED MILK BAGGING OPERATION SERVED BY FLEX KLEEN BAGHOUSE (SHARED WITH S-525-30) MODEL WSTC121 WITH 1282 SQ. FT. CLOTH AREA AND 12,000 SCFM BLOWER

## PERMIT UNIT REQUIREMENTS

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1. Line shall include one Avapac powder packer not to exceed 25 electric hp and two Control and Metering Ltd bulk baggers not to exceed 75 total hp. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Total maximum dried milk powder bagged shall not exceed 500 ton/day. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Emission rates shall not exceed 0.004 lb PM10/ton of product bagged. [District NSR Rule and Rule 4202] Federally Enforceable Through Title V Permit
4. Visible emissions shall be less than 5% opacity. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The owner/operator shall maintain records of quantity of dried milk powder bagged for each day of operation, in the format approved by the District. [District NSR Rule; Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. The owner/operator shall check for visible emissions on a weekly basis. If any particulate matter emissions are visible, the baghouse shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
8. Baghouse collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Baghouse collector bags shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. The baghouse shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] 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. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Records of dust collector maintenance, inspection, 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, 9.4.2] Federally Enforceable Through Title V Permit
19. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-38-6

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

50,000 GALLON DRY POWDER STORAGE SILO #6 SERVING DRYER #1 (S-525-36) WITH NUCON BIN VENT FILTER WITH 71.5 SQUARE FEET OF CLOTH AREA AND MAXIMUM FLOW OF 535 SCFM

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo #6 (S-525-38) and Silo #7 (S-525-39) shall not exceed 192 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [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-525-39-9

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

57,000 GALLON POWDER STORAGE SILO WITH TWO NUCON BIN VENT FILTERS; RECEIVING POWDER ONLY FROM S-525-43 AND DISCHARGING ONLY TO BAGGING OPERATIONS S-525-30, '-37, AND '-44

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo #6 (S-525-38) and Silo #7 (S-525-39) shall not exceed 192 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [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-525-41-4

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

"MIKRO-PULSAIRE" VACUUM SYSTEM SERVING DRYERS #4 AND 5 (S-525-3 AND -10) AND BAGGERS (S-525-30 & -37) IN THE BAGGING WAREHOUSE, CONSISTING OF A DUST HOPPER, HOFFMAN ROTARY BLOWER, FILTER ASSEMBLY AND PIPED DISCHARGE TO A 55 GALLON DRUM

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
3. 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, 9.3.2] Federally Enforceable Through Title V Permit
4. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. 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, 9.4.2] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] 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-525-42-5

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

180 MMBTU/HR UNION IRON WORKS NATURAL GAS FIRED BOILER WITH RMB LOW NOX BURNER, FLUE GAS RECIRCULATION, AND A PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)

## PERMIT UNIT REQUIREMENTS

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1. Permittee shall comply with all applicable NSPS requirements, including monitoring, notification and reporting requirements as described in 40 CFR 60 Subparts A and Db. [District Rule 4001] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only PUC quality natural gas shall be combusted in this unit. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7 ppmvd-NOx @ 3% O2, 0.00285 lb-SOx/MMBtu, 0.0076 lb-PM10/MMBtu, 50 ppmvd-CO @ 3% O2 or 0.037 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
5. Flue gas recirculation system shall be operational at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
6. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
7. Source testing to measure natural gas-combustion NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. At all times the PEMS must be operated in accordance with the requirements contained in EPA Performance Specification 16 for Predictive Emissions Monitoring Systems and Amendments to Testing and Monitoring Provisions. See 56 Fed. Reg. 12575 (March 25, 2009). [District Rule 1080] Federally Enforceable Through Title V Permit
10. All records related to the operation of the PEMS that are required by NSPS Subpart Db and EPA Performance Specification 16 must be kept in a form suitable for inspection for a period of at least five (5) years. [District Rule 1080] Federally Enforceable Through Title V Permit
11. The sensor evaluation system must check the integrity of each PEMS input at least daily. [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.

12. The PEMS data is considered biased and must be adjusted if the arithmetic mean (d) is greater than the absolute value of the confidence coefficient (cc) in Equations 16.1 and 16.3 of EPA Performance Specification 16. In such cases, a bias factor must be used to correct the PEMS data. [District Rule 1080] Federally Enforceable Through Title V Permit
13. Permittee shall perform a RAA consisting of at least three 30-minute portable analyzer or RM determinations each quarter a RATA is not performed as specified in Section 9.3 of EPA Performance Specification 16. The average of the 3 portable analyzer or RM determinations must not differ from the simultaneous PEMS average value by more than 10 percent of the analyzer or RM value or the test is failed. [District Rule 1080] Federally Enforceable Through Title V Permit
14. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly RATA in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, you must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rule 1080] Federally Enforceable Through Title V Permit
15. The calculated F-value (as specified in Section 13.3 of EPA Performance Specification 16) shall not exceed the critical F-value at the 95-percent confidence level for the PEMS to be acceptable. [District Rule 1080] Federally Enforceable Through Title V Permit
16. The calculated r-value (as calculated in EPA Performance Specification 16) must be greater than or equal to 0.8 for the PEMS correlation to be acceptable. [District Rule 1080] Federally Enforceable Through Title V Permit
17. The PEMS relative accuracy (RA) must not exceed 10 percent if the PEMS measurements are greater than 100 ppm or 0.2 lb/MMBtu. The RA must not exceed 20 percent if the PEMS measurements are between 100 ppm (or 0.2 lb/MMBtu) and 10 ppm (or 0.05 lb/MMBtu). For measurements below 10 ppm, the absolute mean difference between the PEMS measurements and the RM measurements must not exceed 2 ppm. [District Rule 1080] Federally Enforceable Through Title V Permit
18. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201 and 4301] Federally Enforceable Through Title V Permit
21. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)] Federally Enforceable Through Title V Permit
22. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [District Rules 2520, 4305, 4306, 4320, and 4351] Federally Enforceable Through Title V Permit
23. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
25. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
26. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Operator shall monitor and record for each unit the hhv and cumulative annual use of fuel. [District Rules 4320, 4351, and 2520] Federally Enforceable Through Title V Permit
29. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520] Federally Enforceable Through Title V Permit
30. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), Rule 408 (Fresno), Rule 408.2 (Merced) and 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin); Rule 402(Madera) and 404 (all seven remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
31. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 and 409 (Kern), and 408 (all six remaining counties in the San Joaquin Valley); Rule 404 (Madera) 406 (Fresno), and 407 (all six remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201, 4301, 4305, 4306, and 4351. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
33. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). [District Rule 2520] Federally Enforceable Through Title V Permit
34. The requirements of 40 CFR 72.6(b) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit
35. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-43-3

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

NIRO CDP-1250-N MILK SPRAY DRYER WITH 16,000 LB/HR CAPACITY SERVED BY GEA PROCESS ENGINEERING MODELS 61071-732001-011 (BAGHOUSE #1) AND 61071-732002-011 (BAGHOUSE 2) AND GEA PROCESS ENGINEERING MODEL 61071-763001-011 COOLING CONVEYING BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
5. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
8. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse, and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
10. A spare set of bags for the largest module in the baghouse shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Visible emissions from baghouse serving dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The baghouses shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
13. The baghouses shall operate at all times with a minimum differential pressure of 0.1 inches water column and a maximum differential pressure of 10 inches water column. [District Rules 2201 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Process weight rate of powdered milk produced shall not exceed 192 tons/day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
17. PM10 emissions from drier shall not exceed 0.344 lb/ton dry milk powder produced. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Initial source testing to measure PM10 emissions using EPA Method 201A shall be conducted within 60 days of initial start-up of the dryer unless startup source testing has been conducted pursuant to ATC S-525-43-0. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Baghouses shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Records of baghouse maintenance, inspections, repair, and all change outs of filter media, 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, 9.4.2] Federally Enforceable Through Title V Permit
21. Daily records of the weight of powdered milk produced (dry weight) shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
22. Records of all maintenance of the baghouses, including all change outs of filter media, shall be retained on-site and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [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-525-44-3

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

26,000 LB/HR POWDERED MILK BAGGING OPERATION SERVED BY DONALDSON DUST COLLECTOR AND VACUUM DENSE CONVEYING SYSTEM SERVED BY SOLBERG INLINE HEPA FILTER AND AMT 16 PORSTEX II FILTER

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. The dust collector shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Visible emissions from dust collector serving dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The dust collector shall operate at all times with a minimum differential pressure of 0.4 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Process weight rate of dried powdered milk packaging operation shall not exceed 312 tons/day without prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM10 emissions from dried powdered milk packaging operation shall not exceed 0.004 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Initial source testing to measure PM10 emissions using EPA Method 201A shall be conducted within 60 days of initial start-up of the packaging operation unless startup source testing has been conducted pursuant to ATC S-525-44-0. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Daily records of the weight of dried powdered milk packaged (dry weight) shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
18. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [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-525-46-2

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

20 HP AMERICAN VACUUM COMPANY MODEL PD5LPKG CARTRIDGE AND SOCK-TYPE AIR FILTRATION SYSTEM FOR CLEANING THE TECHNOPAK DRY MILK PACKAGING OPERATION

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.02 grains/dscf in concentration. [District Rules 2201 & 4201] Federally Enforceable Through Title V Permit
3. Visible emissions shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rules 2201] Federally Enforceable Through Title V Permit
4. PM10 emissions shall not exceed 2.0 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The system shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Replacement bags numbering at least 10% of the total number of bags and for each type of bag, shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All ducting shall be properly maintained to prevent fugitive dust emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The system shall be equipped with an operational pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201]
11. Differential operating pressure shall be monitored and recorded on each day that the system operates. [District Rule 2201]
12. Records of all maintenance including all change outs of filter media, shall be maintained. [District Rule 2201]
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-525-47-2

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

25,689 GALLON DRY POWDER STORAGE SILO PS11 WITH NUCON BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo S-525-47 and Silo S-525-48 shall not exceed 180 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [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-525-48-2

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

25,689 GALLON DRY POWDER STORAGE SILO PS12 WITH NUCON BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from bin vent filter serving silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Maximum total quantity of dry powder conveyed into Silo S-525-47 and Silo S-525-48 shall not exceed 180 tons/day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. PM10 emissions from silo shall not exceed 0.015 lb/ton dried powdered milk produced. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The owner/operator shall check for visible emissions weekly during silo loading. If any particulate matter emissions are visible, the bin vent filter shall be inspected for any tears, abrasions, or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201, 4202, and 2520 section 9.4.2] Federally Enforceable Through Title V Permit
7. Daily records of throughput of silo shall be maintained, retained on-site and made available for District inspection upon request. [District Rule 1070]
8. Records of bin vent filter 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, 9.4.2] Federally Enforceable Through Title V Permit
9. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [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-525-51-1

**EXPIRATION DATE:** 10/31/2020

**EQUIPMENT DESCRIPTION:**

182 MMBTU/HR BABCOCK AND WILCOX COMPANY NATURAL GAS FIRED BOILER WITH COEN/TODD VARIFLAME LOW NOX BURNER (OR EQUIVALENT), CATASTAK SCR SYSTEM (OR EQUIVALENT), AND A PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4201] Federally Enforceable Through Title V Permit
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized, and maintained. [40 CFR 60.49 b(d)(1)] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Except during startup and shutdown, emissions rates from the natural gas-fired unit shall not exceed any of the following limits: 5 ppmv NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.0061 lb-NO<sub>x</sub>/MMBtu, 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, 50 ppmv CO @ 3% O<sub>2</sub> or 0.037 lb-CO/MMBtu, 0.0055 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. NO<sub>x</sub> emissions limits shall not exceed 0.1 lb NO<sub>x</sub>/MMBtu for low heat release rate (< 70,000 Btu/hr ft<sup>2</sup>) and 0.2 lb NO<sub>x</sub>/MMBtu for low heat release rate (> 70,000 Btu/hr ft<sup>2</sup>) pursuant to 40 CFR 60.44b(a). This limit applies at all times including startups, shutdowns, and malfunctions pursuant to CFR 60.42b(h). Compliance with these limits is determined on a 24-hr average basis for the initial performance test and on a 3 hour average basis for subsequent performance tests pursuant to 40 CFR 60.44b(j). [40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
9. The ammonia (NH<sub>3</sub>) emissions shall not exceed 10 ppmvd @ 3% O<sub>2</sub>. [District Rule 4102] Federally Enforceable Through Title V Permit
10. During startup or shutdown, the emissions control system shall be in operation, and emissions shall be minimized to the extent technically possible. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
11. Startup and shutdown shall not exceed 2 hrs per occurrence. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
12. If CEMS is installed, unit shall comply with the emission monitoring requirements as specified in 40 CFR Part 60.48b. [District Rule 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.



13. PEMS shall meet the requirements in 40 CFR 60, Performance Specifications 16 (PS-16) except as modified by this permit, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [40 CFR Subpart Db, 40 CFR Part 64, Rule 4320, and, District Rule 1080] Federally Enforceable Through Title V Permit
14. At all times the PEMS must be operated in accordance with the requirements contained in EPA Performance Specification 16 for Predictive Emissions Monitoring Systems and Amendments to Testing and Monitoring Provisions. [District Rule 1080] Federally Enforceable Through Title V Permit
15. The owner or operator shall install, certify, maintain, operate and quality-assure a PEMS which continuously predicts and records the exhaust gas NO<sub>x</sub>, CO and O<sub>2</sub> concentrations. Predictive emissions monitor(s) shall be capable of predicting emissions during normal operating conditions. PEMS results during startup and shutdown events shall be predicted using startup emission rates obtained from the initial performance source testing to determine compliance with emission limits contained in this permit. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
16. Relative Accuracy Test Audit (RATA) must be conducted annually as specified in PS-16, Section 8.2 and must include 9 RM (Reference Method e.g. EPA Method 7c for NO<sub>x</sub>) tests at each of low, medium, and high operating levels. Relative accuracy (RA) calculations using RM and PEMS data from the 3-level tests must be done using equations specified in PS-16, Section 12.2. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
17. PEMS RA must not exceed 10 percent if the PEMS measurements are greater than 100 ppm or 0.2 lb/MMBtu. The RA must not exceed 20 percent if the PEMS measurements are between 100 ppm (or 0.2 lb/MMBtu) and 10 ppm (or 0.05 lb/MMBtu). For measurements below 10 ppm, the absolute mean difference between the PEMS measurements and the RM measurements must not exceed 2 ppm. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Permittee shall perform a relative accuracy audit (RAA) consisting of at least three 30-minute portable analyzer or RM (reference method) determinations each quarter a relative accuracy test audit (RATA) is not performed as specified in Section 9.3 of EPA Performance Specification 16. The average of the 3 portable analyzer determinations must not differ from the simultaneous PEMS average value by more than 2 ppmv. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
19. If a PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly (RATA) in the second year, the permittee may elect to perform a single mid-year RAA in the second year in place of the quarterly RAAs as specified in Section 9.3 of EPA Performance Specification 16. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, permittee must resume quarterly RAAs in the quarter following the failure and continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
20. Statistical tests as specified PS-16, Section 8.3 including bias test, F-test, and correlation analysis must be used to evaluate paired RA and RM data for demonstration of continual compliance. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
21. The PEMS data is considered biased and must be adjusted if the arithmetic mean (d) is greater than the absolute value of the confidence coefficient (cc) in Equations 16.1 and 16.3 of EPA Performance Specification 16. In such cases, a bias factor must be used to correct the PEMS data. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The calculated F-value (as specified in Section 13.3 of EPA Performance Specification 16) shall not exceed the critical F-value at the 95-percent confidence level for the PEMS to be acceptable. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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23. Operator shall perform a correlation analysis using the RA paired data from all operating levels combined to determine how well the RM and PEMS correlate. Use the equations in Section 12.3.3. The correlation is waived if the process cannot be varied to produce a concentration change sufficient for a successful correlation test because of its technical design. In such cases, should a subsequent RATA identify a variation in the RM measured values by more than 30 percent, the waiver will not apply, and a correlation analysis test must be performed at the next RATA. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64]
24. If PEMS fails to pass a quarterly RAA or yearly RATA test, or if changes are made that could result in a significant change in the emissions rate (e.g. process modification, new process operating modes, or changes to emission controls) the PEMS must be recertified by the earlier of 60 operating days or 180 calendar days after the failed RATA or after the change that has caused a significant change in emission rate as specified in PS-16, Section 8.5. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
25. Source shall maintain a Quality Control Plan (QA plan) including the components specified by PS-16, Section 9.0 to verify that the system is generating quality assured data after the initial PEMS certification test. QA plan shall include QA/QC summary of ongoing tests (listed in PS-16 Section 9.1 Table), daily sensor evaluation checks, quarterly RAAs, and yearly RATA. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
26. The operator shall monitor the ammonia injection rate during PEMS breakdowns to demonstrate NOx emission compliance. [District Rules 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
27. The PEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rules 1080, 2201, 4305, 4306, 4320 and 40 CFR Subpart Db, 40 CFR Part 64] Federally Enforceable Through Title V Permit
28. PEMS emission measurements shall be averaged over a period of 15 consecutive minutes to demonstrate compliance with the applicable emission limits. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
29. The PEMS data shall be reduced to hourly averages as specified in 40 CFR 60.13(h), or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
30. The nitrogen oxide NOx emission rates measured by the PEMS shall be expressed in lb/million Btu or ppmv @ 3% O<sub>2</sub>. The 1-hour average emission rates shall be calculated using the data points required under Section 60.13(h)(2). The records shall also include a daily emission rate consisting of an averaged 24 hour rolling emission rate. [District Rule 2201; 40 CFR 60.48b (d) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
31. The owner or operator shall maintain PEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [40 CFR 60.7(b), and District Rule 1080] Federally Enforceable Through Title V Permit
32. Permittee shall submit a PEMS written report for each calendar quarter to the District. The report is due on the 30th day following the end of the calendar quarter. Quarterly report shall include: time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; applicable time and date of each period during which the PEMS was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [40 CFR Subpart Db, 40 CFR Part 64, District Rule 1080 and District 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.

33. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
34. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
35. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
36. Source testing to measure NH<sub>3</sub> slip from this unit shall be conducted at least once every twelve months or shall meet the alternate monitoring method established by mutual agreement with the District. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve months. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
37. For RATA, NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
38. For RATA, CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
39. For RATA, stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
40. For RATA, fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320] Federally Enforceable Through Title V Permit
41. For RATA, source testing for ammonia slip shall be conducted utilizing BAAQMD method ST-1B. [District Rule 2201] Federally Enforceable Through Title V Permit
42. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
43. For RATA, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
44. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
45. Permittee shall record the daily startup and shutdown duration times of the boiler. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
46. All records related to the operation of the PEMS that are required by NSPS Subpart Db, 40 CFR Part 64 and EPA Performance Specification 16 must be kept in a form suitable for inspection for a period of at least five (5) years. [District Rule 1080] Federally Enforceable Through Title V Permit
47. 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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# ATTACHMENT C

## Detailed Summary List of Facility Permits

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**Detailed Facility Report**  
For Facility=525 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

LAND O' LAKES INC 400 SOUTH M ST TULARE, CA 93274	FAC # STATUS: TELEPHONE:	S 525 A 5596876551	TYPE: TOXIC ID:	Thiev 50065	EXP. ON: AREA: INSP. DATE:	10/31/2020 21 / 07/20
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-525-3-10	150 hp	3020-01 D	1	379.00	379.00	A	DRYER #4 SERVED BY A MARRIOT WALKER REVERSE PULSE BAGHOUSE
S-525-11-4	34,034 GALLONS	3020-05 C	1	165.00	165.00	A	34,034 GALLON DRY POWDER STORAGE SILO #1
S-525-12-4	34,034 GALLONS	3020-05 C	1	165.00	165.00	A	34,034 GALLON DRY POWDER STORAGE SILO #2
S-525-13-4	34,034 GALLONS	3020-05 C	1	165.00	165.00	A	34,034 GALLON DRY POWDER STORAGE SILO #3
S-525-14-4	26,399 GALLONS	3020-05 C	1	165.00	165.00	A	26,399 GALLON DRY POWDER STORAGE SILO #4
S-525-30-16	28 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	28 MMBTU/HR NATURAL GAS-FIRED NON-FAT MILK PROCESSING LINE
S-525-31-5	750 bhp IC engine	3020-10 D	1	577.00	577.00	A	750 BHP CUMMINS MODEL VTA28681 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-525-32-5	435 bhp IC engine	3020-10 D	1	577.00	577.00	A	435 BHP CUMMINS MODEL NTA-855-GS DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-525-33-5	900 HP	3020-10 E	1	723.00	723.00	A	900 BHP CUMMINS DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-525-35-10	122 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	122 MMBTU/HR NATURAL GAS-FIRED BOILER WITH FLUE GAS RECIRCULATION, JOHN ZINK TODD RMB MODEL T1450IG03650X LOW NOX BURNER AND OXYGEN CONTROLLER
S-525-36-10	20 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	20 MMBTU/HR NATURAL GAS-FIRED MILK SPRAY PROCESSING LINE SERVED BY TWO NIRO CMC 3150 CYCLONES SERVED BY TWO NIRO SBF-12-500 BAGHOUSES EACH WITH 5,400 SQUARE FEET CLOTH AREA AND 37,820 SCFM BLOWERS
S-525-37-5	100 HP ELECTRIC MOTOR HP	3020-01 D	1	379.00	379.00	A	POWERED MILK BAGGING OPERATION SERVED BY FLEX KLEEN BAGHOUSE (SHARED WITH S-525-30) MODEL WSTC121 WITH 1282 SQ. FT. CLOTH AREA AND 12,000 SCFM BLOWER
S-525-38-6	50,000 GAL SILO #6	3020-05 D	1	223.00	223.00	A	50,000 GALLON DRY POWDER STORAGE SILO #6 SERVING DRYER #1 (S-525-36) WITH NUCON BIN VENT FILTER WITH 71.5 SQUARE FEET OF CLOTH AREA AND MAXIMUM FLOW OF 535 SCFM
S-525-39-9	57,000 gallons	3020-05 D	1	223.00	223.00	A	57,000 GALLON POWDER STORAGE SILO WITH TWO NUCON BIN VENT FILTERS; RECEIVING POWDER ONLY FROM S-525-43 AND DISCHARGING ONLY TO BAGGING OPERATIONS S-525-30, -37, AND -44
S-525-41-4	<25 HP	3020-01 A	1	107.00	107.00	A	"MIKRO-PULSARE" VACUUM SYSTEM SERVING DRYERS #4 AND 5 (S-525-3 AND -10) AND BAGGERS (S-525-30 & -37) IN THE BAGGING WAREHOUSE, CONSISTING OF A DUST HOPPER, HOFFMAN ROTARY BLOWER, FILTER ASSEMBLY AND PIPED DISCHARGE TO A 55 GALLON DRUM

**Detailed Facility Report**

For Facility=525 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	TOTAL FEE	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-525-42-5	180 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	180 MMBTU/HR IRON WORKS NATURAL GAS FIRED BOILER WITH RMB LOW NOX BURNER, FLUE GAS RECIRCULATION, AND A PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)
S-525-43-3	1215 hp	3020-01 G	1	980.00	980.00	A	NIRO GDP-1250-N MILK SPRAY DRYER WITH 16,000 LB/HR CAPACITY SERVED BY GEA PROCESS ENGINEERING MODELS 61071-732001-0*11 (BAGHOUSE #1) AND 61071-732002-0*11 (BAGHOUSE 2) AND GEA PROCESS ENGINEERING MODEL 61071-763001-0*11 COOLING CONVEYING BAGHOUSE
S-525-44-3	32.5 hp	3020-01 B	1	143.00	143.00	A	26,000 LB/HR POWDERED MILK BAGGING OPERATION SERVED BY DONALDSON DUST COLLECTOR AND VACUUM DENSE CONVEYING SYSTEM SERVED BY SOLBERG INLINE HEPA FILTER AND AMT 16 PORSTEX II FILTER
S-525-46-2	20 electric motor horsepower	3020-01 A	1	107.00	107.00	A	20 HP AMERICAN VACUUM COMPANY MODEL PD5LPKG CARTRIDGE AND SOCK-TYPE AIR FILTRATION SYSTEM FOR CLEANING THE TECHNOPAK DRY MILK PACKAGING OPERATION
S-525-47-2	25689 gallons	3020-05 C	1	165.00	165.00	A	25,689 GALLON DRY POWDER STORAGE SILO PS11 WITH NUCON BIN VENT FILTER
S-525-48-2	25,689 gallons	3020-05 C	1	165.00	165.00	A	25,689 GALLON DRY POWDER STORAGE SILO PS12 WITH NUCON BIN VENT FILTER
S-525-51-1	182 MMBtu/hr	3020-01 H	1	1,238.00	1,238.00	A	182 MMBTU/HR BABCOCK AND WILCOX COMPANY NATURAL GAS FIRED BOILER WITH COENTODD VARIFLAME LOW NOX BURNER (OR EQUIVALENT), CATASTAK SCR SYSTEM (OR EQUIVALENT), AND A PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)

Number of Facilities Reported: 1