



JUN 08 2012

Sy Dange Le  
California Dairies, Inc.  
2000 N. Plaza Drive  
Visalia, CA 93291

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit  
District Facility # S-7063  
Project # S-1110139**

Dear Mr. Le:

Enclosed for your review and comment is the District's analysis of California Dairies, Inc.'s application for the Federally Mandated Operating Permit for its Milk Processing facility at 2000 N. Plaza Drive, Visalia, California.

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

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

Sincerely,

David Warner  
Director of Permit Services

cc: Manuel Salinas, Permit Services Engineer

Attachments

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



JUN 08 2012

Gerardo C. Rios, Chief  
Permits Office (AIR-3)  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit  
District Facility # S-7063  
Project # S-1110139**

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of California Dairies, Inc.'s application for the Federally Mandated Operating Permit for its Milk Processing facility at 2000 N. Plaza Drive, Visalia, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner  
Director of Permit Services

cc: Manuel Salinas, Permit Services Engineer

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JUN 08 2012

Mike Tollstrup, Chief  
Project Assessment Branch  
Air Resources Board  
P O Box 2815  
Sacramento, CA 95812-2815

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit  
District Facility # S-7063  
Project # S-1110139**

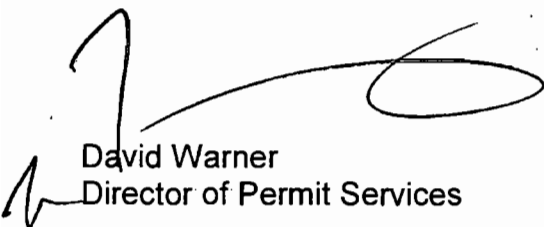
Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of California Dairies, Inc.'s application for the Federally Mandated Operating Permit for its Milk Processing facility at 2000 N. Plaza Drive, Visalia, California.

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

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

Sincerely,



David Warner  
Director of Permit Services

cc: Manuel Salinas, Permit Services Engineer

Attachments

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Executive Director/Air Pollution Control Officer

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**NOTICE OF PRELIMINARY DECISION  
FOR THE PROPOSED ISSUANCE OF  
FEDERALLY MANDATED OPERATING PERMITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of the Federally Mandated Operating permits to California Dairies, Inc. for its Milk Processing facility at 2000 N. Plaza Drive, Visalia, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1110139, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed Federally Mandated Operating initial permits. If requested by the public, the District will hold a public hearing regarding issuance of this initial permit. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed initial permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

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

**California Dairies, Inc.**

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## **TITLE V APPLICATION REVIEW**

Project #: S-1110139  
Deemed Complete: 01/26/11

Engineer: Manuel Salinas  
Date: 6/6/12

Facility Number: S-7063  
Facility Name: California Dairies, Inc.  
Mailing Address: 2000 N. Plaza Drive  
Visalia, CA 93291

Contact Name: Sy Dang Le  
Phone: (559) 233-5154 x.119

Responsible Official: Sy Dang Le  
Title: Director of Safety and Environmental

### **I. PROPOSAL**

California Dairies, Inc. is proposing that an initial Title V permit be issued for its milk processing facility located in Visalia, CA. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

### **II. FACILITY LOCATION**

California Dairies, Inc. is located at 2000 N. Plaza Drive in Tulare County, CA.

### **III. EQUIPMENT LISTING**

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

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

#### **IV. GENERAL PERMIT TEMPLATE USAGE**

The applicant 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. REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATES**

The applicant has not proposed to utilize any model general permit templates. All applicable requirements are explicitly addressed in the permit outside of the general permit templates.

#### **VII. REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES**

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

District Rule 1100, Equipment Breakdown (amended December 17, 1992)

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

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

District Rule 2020, Exemptions (amended August 18, 2011)

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

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

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

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

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

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

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

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

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

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

District Rule 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 (amended October 16, 2008)

District Rule 4701, Internal Combustion Engines (amended August 21, 2003)

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

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

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

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

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

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

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

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

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

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

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

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

40 CFR Part 64, Compliance Assurance Monitoring (CAM)

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

## **VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE**

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits.



The terms and conditions that are part of the facility's Title V permit are designated as Federally Enforceable Through Title V Permit.

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

**A. District Rule 4102 - Nuisance**

1. S-7063-0-1 – Facility-Wide Requirements

- Condition 39 on the proposed permit assures compliance with the requirements of this rule.

2. S-7063-17-1: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Condition 9 complies with this rule.

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

1. S-7063-17-1: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Conditions 3, 5, 6 through 8, and 10 comply with this rule.

**IX. COMPLIANCE**

**A. Requirements Addressed by Model General Permit Templates**

**1. Facility Wide Requirements**

The applicant proposes not to utilize any model general permit templates. All applicable requirements are addressed in the following sections.

**B. Requirements Not Addressed by Model General Permit Templates**

**1. District Rule 1070 – Inspections**

The purpose of this rule is to explain the District's authority in determining compliance with the requirements of these rules and regulations. District Rule 1070 has been submitted to the EPA to replace Tulare County Rule

107 that is in the State Implementation Plan (SIP). District Rule 1070 is at least as stringent as Tulare County 107 as shown in the following comparison:

**Comparison of District Rule 1070 to Tulare County Rule 107**

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

- a. S-7063-3-1: 37,403 GALLON POWDER MILK STORAGE SILO #1 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 4 and 5 on the proposed permit comply with this rule.
  
- b. S-7063-4-1: 37,403 GALLON POWDER MILK STORAGE SILO #2 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 4 and 5 on the proposed permit comply with this rule.
  
- c. S-7063-5-1: 37,403 GALLON POWDER MILK STORAGE SILO #3 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 4 and 5 on the proposed permit comply with this rule.
  
- d. S-7063-6-1: 37,403 GALLON POWDER MILK STORAGE SILO #4 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 4 and 5 on the proposed permit comply with this rule.

- e. S-7063-7-3: 40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 27 and 28 on the requirements for this permit comply with this rule.
  
- f. S-7063-8-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 20 and 22 on the requirements for this permit comply with this rule.
  
- g. S-7063-9-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 20 and 22 on the requirements for this permit comply with this rule.
  
- h. S-7063-10-2: BAGGING OPERATION CONSISTING OF ONE 1,000 CFM BIN VENT FILTER SERVING THE TOTE BAG FILLER, TWO 850 CFM BIN VENT FILTERS SERVING TWO CAROUSEL FILLERS EACH, AND ONE 10,000 CFM DONALDSON TORIT DUST COLLECTOR MODEL DLMC 2/4/15 SERVING THE BAGGING ROOM
  - Conditions 10 and 11 on the requirements for this permit comply with this rule.

- i. S-7063-12-2: 40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 28 and 29 on the requirements for this permit comply with this rule.
- j. S-7063-13-1: 37,403 GALLON POWDER MILK STORAGE SILO #5 SERVED BY BIN VENT FILTER
  - Conditions 4 and 5 on the requirements for this permit comply with this rule.
- k. S-7063-14-1: 37,403 GALLON POWDER MILK STORAGE SILO #6 SERVED BY BIN VENT FILTER
  - Conditions 4 and 5 on the requirements for this permit comply with this rule.
- l. S-7063-15-1: 37,403 GALLON POWDER MILK STORAGE SILO #7 SERVED BY BIN VENT FILTER
  - Conditions 4 and 5 on the requirements for this permit comply with this rule.
- m. S-7063-16-1: 37,403 GALLON POWDER MILK STORAGE SILO #8 SERVED BY BIN VENT FILTER
  - Conditions 4 and 5 on the requirements for this permit comply with this rule.
- n. S-7063-18-1: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 20 and 22 on the requirements for this permit comply with this rule.

## 2. District Rule 1081 - Source Sampling

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

- a. S-7063-7-3: 40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 13 and 20 on the requirements for the proposed permit comply with this rule.
  
- b. S-7063-8-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 6 and 7 on the requirements for the proposed permit comply with this rule.
  
- c. S-7063-9-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 6 and 7 on the requirements for the proposed permit comply with this rule.

- d. S-7063-10-2: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 10 and 11 on the requirements for the proposed permit comply with this rule.
  
- e. S-7063-12-2: 40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 13 and 21 on the requirements for the proposed permit comply with this rule.
  
- f. S-7063-18-1: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 6 and 7 on the requirements for the proposed permit comply with this rule.

### **3. District Rule 1100 – Equipment Breakdown**

This rule defines a breakdown condition and the procedures to follow if one occurs. The corrective action, the issuance of an emergency variance, and the reporting requirements are also specified. Sections 6.0 and 7.0 prescribe breakdown procedures and reporting requirements. District Rule 1100 has been submitted to the EPA to replace Tulare County Rule 110 that is in the State Implementation Plan (SIP). District Rule 1100 is at least as stringent as the county SIP rule addressing breakdowns, as shown in the following comparison:

**Comparison of District Rule 1100 to Tulare County Rule 110**

REQUIREMENTS	District Rule 1100	Tulare Rule 110
A breakdown occurrence must be reported as soon as reasonably possible but no later than 1 hour after detection.	X	X
A variance must be obtained if the occurrence will last longer than a production run or 24 hours, whichever is shorter (96 hours for CEM systems).	X	X
A report must be submitted to the APCO within 10 days of the correction of the breakdown occurrence which includes:	X	X
1) A statement that the breakdown condition has been corrected, together with the date of correction and proof of compliance.	X	X
2) A specific statement of the reason(s) or cause(s) for the occurrence sufficient to enable the APCO to determine whether the occurrence was a breakdown condition.	X	X
3) A description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future.	X	
4) Pictures of the equipment or controls which failed if available.	X	

a. S-7063-0-1: Facility-Wide Requirements

- Conditions 1 and 2 on the requirements for the proposed permit comply with this rule.

**4. District Rule 1160 – Emission Statements**

The purpose of this rule is to provide the District with an accurate accounting of emissions from significant sources with which the District and California EPA Air Resources Board (ARB) can compile an accurate inventory. Section 5.0 requires the owner or operator of any stationary source to provide the District with a written emissions statement showing actual emissions of reactive organic gases (ROGs) and nitrogen oxides (NOx) from that source. The District waives this requirement for sources emitting less than 25 tons per year of these pollutants if the District provides the Air Resources Board (ARB) with an emissions inventory of sources emitting greater than 10 tons per year of NOx or ROGs based on the use of emission factors acceptable to the ARB.

a. S-7063-0-1: Facility-Wide Requirements

- Condition 3 on the requirements for the proposed permit complies with this rule.

## **5. District Rule 2010 – Permits Required**

District Rule 2010 sections 3.0 and 4.0 requires any person building, modifying or replacing any operation that may cause the issuance of air contaminants to apply for an Authority to Construct (ATC) from the District in advance. The ATC will remain in effect until the Permit to Operate (PTO) is granted.

- a. S-7063-0-1: Facility-Wide Requirements
  - Condition 4 on the requirements for the proposed permit complies with this rule.

## **6. District Rule 2020 – Exemptions**

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions. The rule was amended in August 8, 2011. Since the amendments do not affect the current permit requirements, the changes to the rule will not be addressed in this evaluation.

- a. S-7063-0-1: Facility-Wide Requirements
  - Condition 4 on the requirements for the proposed permit complies with this rule.

## **7. District Rule 2031 – Transfer of Permits**

This rule requires a permit to operate or an authority to construct shall not be transferable, whether by operation of law or otherwise, from one location to another, from one piece of equipment to another, or from one person to another, unless a new application is filed with and approved by the APCO.

- a. S-7063-0-1: Facility-Wide Requirements
  - Condition 6 on the requirements for the proposed permit complies with this rule.

## **8. District Rule 2040 – Applications**

The purpose of this rule is to explain the procedures for filing, denying, and appealing the denial of applications for an Authority to Construct or a Permit to Operate.



a. S-7063-0-1: Facility-Wide Requirements

- Condition 7 on the requirements for the proposed permit complies with this rule.

**9. District Rule 2070 – Standards for Granting Applications**

The purpose of this rule is to explain the standards by which an APCO may deny an application for an Authority to Construct or Permit to Operate. Any source operation must be constructed and operated in accordance with Rule 2201 (New and Modified Stationary Source Review Rule), Rule 4001 (New Source Performance Standards), and Rule 4002 (National Emissions Standards for Hazardous Air Pollutants), the Authority to Construct, and the Permit to Operate.

a. S-7063-0-1: Facility-Wide Requirements

- Condition 5 on the requirements for the proposed permit complies with this rule.

**10. District Rule 2080 – Conditional Approval**

The purpose of this rule is to grant authority to the APCO to issue or revise specific written conditions on an Authority to Construct or a Permit to Operate to assure compliance with air contaminant emission standards or limitations.

a. S-7063-0-1: Facility-Wide Requirements

- Condition 5 on the requirements for the proposed permit complies with this rule.

**11. District Rule 2201 - New and Modified Stationary Source Review Rule**

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

a. S-7063-0-0: FACILITY-WIDE REQUIREMENTS

- Conditions 1 and 2 from the current PTO have been included as conditions 39 and 40 of the requirements for the proposed permit.

- b. S-7063-3-1: 37,403 GALLON POWDER MILK STORAGE SILO #1 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.
- c. S-7063-4-1: 37,403 GALLON POWDER MILK STORAGE SILO #2 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.
- d. S-7063-5-1: 37,403 GALLON POWDER MILK STORAGE SILO #3 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.
- e. S-7063-6-1: 37,403 GALLON POWDER MILK STORAGE SILO #4 SERVED BY 1,000 CFM BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.
- f. S-7063-7-3: 40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 1 through 28 from the current PTO have been included as conditions 1 through 28 of the requirements for the proposed permit.

- g. S-7063-8-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
- Conditions 1, 2, and 3 from the current ATC (S-7063-8-3) have been included as conditions 39, 22, and 40 of the facility wide requirements.
  - Conditions 4 through 25 from the current ATC (S-7063-8-3) have been included as conditions 1 through 22 of the requirements for the proposed permit.
  - Condition 26 from the current ATC (S-7063-8-3) is obsolete and has been deleted.
- h. S-7063-9-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
- Conditions 1, 2, and 3 from the current ATC (S-7063-9-3) have been included as conditions 39, 22, and 40 of the facility wide requirements.
  - Conditions 4 through 25 from the current ATC (S-7063-9-3) have been included as conditions 1 through 22 of the requirements for the proposed permit.
  - Condition 26 from the current ATC (S-7063-8-3) is obsolete and has been deleted.
- i. S-7063-10-2: BAGGING OPERATION CONSISTING OF ONE 1,000 CFM BIN VENT FILTER SERVING THE TOTE BAG FILLER, TWO 850 CFM BIN VENT FILTERS SERVING TWO CAROUSEL FILLERS EACH, AND ONE 10,000 CFM DONALDSON TORIT DUST COLLECTOR MODEL DLMC 2/4/15 SERVING THE BAGGING ROOM
- Conditions 1 through 11 from the current PTO have been included as conditions 1 through 11 of the requirements for the proposed permit.

- j. S-7063-12-2: 40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 1 through 29 from the current PTO have been included as conditions 1 through 29 of the requirements for the proposed permit.
  
- k. S-7063-13-1: 37,403 GALLON POWDER MILK STORAGE SILO #5 SERVED BY BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.
  
- l. S-7063-14-1: 37,403 GALLON POWDER MILK STORAGE SILO #6 SERVED BY BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.
  
- m. S-7063-15-1: 37,403 GALLON POWDER MILK STORAGE SILO #7 SERVED BY BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.
  
- n. S-7063-16-1: 37,403 GALLON POWDER MILK STORAGE SILO #8 SERVED BY BIN VENT FILTER
  - Conditions 1 through 5 from the current PTO have been included as conditions 1 through 5 of the requirements for the proposed permit.

- o. S-7063-17-1: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
  - Condition 3 from the current PTO has been included as condition 22 of the facility wide requirements.
  - Conditions 1, 2 and 4 through 11 from the current PTO have been included as conditions 1 through 10 of the requirements for the proposed permit.
  
- p. S-7063-18-1: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Condition 1 from the current PTO has been included as condition 22 of the facility wide requirements.
  - Conditions 2 through 23 from the current PTO have been included as conditions 1 through 22 of the requirements for the proposed permit.

## **12. District Rule 2520, Federally Mandated Operating Permits**

The purpose of this rule is to provide for the following: An administrative mechanism for issuing operating permits for new and modified sources of air contaminants in accordance with requirements of 40 CFR Part 70. An administrative mechanism for issuing renewed operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70. An administrative mechanism for revising, reopening, revoking, and terminating operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70. An administrative mechanism for incorporating requirements authorized by preconstruction permits issued under District Rule 2201 (New and Modified Stationary Source Review) in a Part 70 permit as administrative amendments, provided that such permits meet procedural requirements substantially equivalent to the requirements of 40 CFR 70.7 and 70.8, and compliance requirements substantially equivalent to those contained in 40 CFR 70.6. The applicable federal and local requirements to appear on a single permit.

Section 5.2 requires permittees submit applications for Title V permit renewal at least six months prior to permit expiration.

a. S-7063-0-1: Facility-Wide Requirements

- Condition 37 on the requirements for the proposed permit complies with this rule.

Section 9.0 of District Rule 2520 requires certain elements to be contained in each Title V permit:

Section 9.1.1 of District Rule 2520 requires all conditions on Title V permits specify a reference of the origin of an authority for each term or condition, and identify any difference in form as compared to the applicable requirements upon which the term or condition is based.

Section 9.4 contains requirements to incorporate all applicable recordkeeping requirements into the Title V permit. This section also specifies records of any required monitoring and support data be kept for a period of five years.

b. S-7063-0-1: Facility-Wide Requirements

- Conditions 8 and 9 on the requirements for the proposed permit comply with this rule.

Section 9.5 requires the submittal of monitoring reports at least every six months. Prompt reporting of deviations from permitting requirements, including those attributable to upset conditions is also required. The responsible official must certify all required reports.

c. S-7063-0-1: Facility-Wide Requirements

- Conditions 10 and 11 on the requirements for the proposed permit comply with this rule.

Section 9.7 states that the Title V permit must also contain a severability clause in case of a court challenge.

d. S-7063-0-1: Facility-Wide Requirements

- Condition 12 on the requirements for the proposed permit complies with this rule.

Section 9.8 contains requirements for provisions in the Title V permit stating 1) the permittee must comply with all permit conditions; 2) the permitted activity should not be reduced in order to comply with the permit

conditions. Further, this reasoning shall not be used as a defense in an enforcement action, 3) the permit may be revoked, modified, reissued, or reopened for cause, 4) the Title V permit does not reflect any property rights, and 5) the permittee will furnish the District with any requested information to determine compliance with the conditions of the Title V permit.

e. S-7063-0-1: Facility-Wide Requirements

- Conditions 5 and 13 through 16 on the requirements for the proposed permit comply with this rule.

Section 9.9 requires the permit specify that the permittee pay annual permit fees and applicable fees from District Rules 3010, 3030, 3050, 3080, 3090, 3110, and 3120.

f. S-7063-0-1: Facility-Wide Requirements

- Condition 17 on the requirements for the proposed permit complies with this rule.

Section 9.13.1 requires any report or document submitted under a permit requirement or a request for information by the District or EPA contain a certification by a responsible official as to truth, accuracy, and completeness.

g. S-7063-0-1: Facility-Wide Requirements

- Condition 26 on the requirements for the proposed permit complies with this rule.

Section 9.13.2 contains inspection and entry requirements that allows an authorized representative of the District to enter a permittee's premises to inspect equipment, operations, work practices, permits on file, and to sample substances or monitor parameters for the purpose of assuring compliance with the permit requirements.

h. S-7063-0-1: Facility-Wide Requirements

- Conditions 18, 19, 20, and 21 on the requirements for the proposed permit comply with this rule.

Section 9.16 requires that the permittee submit certification of compliance with the terms and standards of Title V permits to the EPA and the District annually (or more frequently as required by the applicable requirement or the District).

i. S-7063-0-1: Facility-Wide Requirements

- Condition 36 on the requirements for the proposed permit complies with this rule.

Section 10.0 requires any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification of truth, accuracy, and completeness by a responsible official.

j. S-7063-0-1: Facility-Wide Requirements

- Condition 26 on the requirements for the proposed permit complies with this rule.

Greenhouse Gas Requirements

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

**13. District Rule 4101 – Visible Emissions**

The purpose of this rule is to prohibit the emissions of visible air contaminants to the atmosphere. Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101.

a. S-7063-0-1: Facility-Wide Requirements

- Condition 22 on the requirements for the proposed permit complies with this rule.



#### 14. District Rule 4201 – Particulate Matter Concentration

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

##### Diesel-Fired IC Engines:

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

- 1) Engine usage is limited to maintenance, testing, and time of actual unforeseen emergencies.
  - 2) Usage for maintenance and testing is not to exceed 200 hours per year (the emergency diesel-fired engine in this facility is limited to less than or equal to 100 hours per year for maintenance and testing).
  - 3) Maintain records of all engine usage and maintenance.
- a. S-7063-17-1: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
- Conditions 5 and 10 on the requirements for this permit unit assure compliance with this rule.

##### Gaseous Fired Units:

The following calculations, using AP-42 emission factors for natural gas, demonstrate that the emission of PM during the firing of gaseous fuels complies with the limits of the rule.

An excess air concentration of 0% in the exhaust results in the maximum particulate matter concentration for any given emission rate. Therefore, the following calculations use an uncorrected F factor to represent worst-case emissions.

$$\left(\frac{13.7 \text{ lb PM}}{10^6 \text{ ft}^3}\right)\left(\frac{1 \text{ scf}}{900 \text{ Btu}}\right)\left(\frac{1 \text{ MMBtu}}{8710 \text{ dscf}}\right)\left(\frac{7000 \text{ grain}}{1 \text{ lb}}\right) = \left(\frac{0.01 \text{ grain}}{\text{dscf}}\right) < \left(\frac{0.1 \text{ grain}}{\text{dscf}}\right)$$

where:

$13.7 \frac{\text{lb PM}}{10^6 \text{ cf}}$  = sum of filterable and condensable uncontrolled emission factors for natural gas-fired boilers (AP42, Table 1.4-2)

$\frac{900 \text{ Btu}}{1 \text{ scf}}$  = the minimum expected higher heating value of natural gas (AP42, Table 1.4.1)

$\frac{8710 \text{ dscf}}{1 \text{ MMBtu}}$  = F factor, Fd, for natural gas at 0% O<sub>2</sub> (40CFR60, App. A, Table 19-1)

$\frac{10,610 \text{ wscf}}{1 \text{ MMBtu}}$  = F factor, Fw, for natural gas at 0% O<sub>2</sub> (40CFR60, App. A, Table 19-1)

$\frac{7000 \text{ grain}}{1 \text{ lb}}$  = conversion factor (AP-42, Appendix A)

a. S-7063-0-1: Facility-Wide Requirements

- Condition 40 on the requirements for the proposed permit applies to all gaseous-fired units in this facility and complies with this rule.

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

The purpose of this rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a rated heat input greater than 5 million Btu per hour.

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

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

The purpose of this rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a rated heat input greater than 5 million Btu per hour.

- a. S-7063-8-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 3, 8 through 19, and 22 on the requirements for this permit unit assure compliance with this rule.
- b. S-7063-9-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Conditions 3, 8 through 19, and 22 on the requirements for this permit unit assure compliance with this rule.
- c. S-7063-18-1: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM.
  - Conditions 3, 8 through 19, and 22 on the requirements for this permit unit assure compliance with this rule.

**17. District Rule 4309 – Dryers, Dehydrators, and Ovens**

The purpose of this rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from dryers, dehydrators, and ovens. This rule applies to any dryer, dehydrator, or oven that is fired on gaseous fuel, liquid fuel, or is fired on gaseous and liquid fuel sequentially, and the total rated heat input for the unit is 5.0 million British thermal units per hour (5.0 MMBtu/hr) or greater.

- a. S-7063-7-3: 40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 6, 9, 12, 14 through 19, 21 through 24, 26, and 28 on the requirements for this permit unit assure compliance with this rule.
- b. S-7063-12-2: 40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
  - Conditions 6, 9, 12, 14 through 19, 22 through 25, 27, and 29 on the requirements for this permit unit assure compliance with this rule.

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

The purpose of this rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a rated heat input greater than 5 million Btu per hour.

The purpose of this rule is to limit the emissions of oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), oxides of sulfur (SO<sub>2</sub>), and particulate matter 10 microns or less (PM<sub>10</sub>) from boilers, steam generators, and process heaters.

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

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

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

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

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

Section 5.4 states the particulate matter control requirements.

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

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

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

5.4.1.3 On and after the applicable NOx Compliance Deadline specified in Section 5.2 Table 1, operators shall install and properly operate an emission control system that reduces SO<sub>2</sub> emissions by at least 95% by weight; or limit exhaust SO<sub>2</sub> to less than or equal to 9 ppmv corrected to 3.0% O<sub>2</sub>.

The facility will comply with the requirements of Section 5.4 by firing on PUC regulated natural gas unless there is a natural gas curtailment, in which, the facility will fire on propane.

- a. S-7063-8-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

- Conditions 3, 5, 9 through 12, 15 through 19, and 22 on the requirements for this permit unit assure compliance with this rule.
- b. S-7063-9-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
- Conditions 3, 5, 9 through 12, 15 through 19, and 22 on the requirements for this permit unit assure compliance with this rule.
- c. S-7063-18-1: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM.
- Conditions 3, 5, 9 through 12, 15 through 19, and 22 on the requirements for this permit unit assure compliance with this rule.

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

This rule limits the emissions of VOCs from architectural coatings. It requires limiting the application of any architectural coating to no more than what is listed in the Table of Standards (Section 5.0). This rule further specifies labeling requirements, coatings thinning recommendations and storage requirements.

- a. S-7063-0-1: Facility-Wide Requirements
- Conditions 23, 24, and 25 on the requirements for the proposed permit comply with this rule.

#### **20. District Rule 4701, Internal Combustion Engines–Phase 1**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. Except as provided in Section 4.0, the provisions of this rule apply to any internal combustion engine, rated greater than 50 bhp that requires a Permit to Operate (PTO).

There is one diesel-fired IC engine involved with this project. Pursuant to Section 2.0 of District Rule 4701, these engines are subject to District Rule 4701–*Internal Combustion Engines–Phase 1*. In addition, the engine is also subject to District Rule 4702–*Internal Combustion Engines–Phase 2*.

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

## **21. District Rule 4702, Internal Combustion Engines–Phase 2**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. Except as provided in Section 4.0, the provisions of this rule apply to any internal combustion engine, rated greater than 25 bhp that requires a Permit to Operate (PTO).

Section 4.2.1 states that except for the requirements of Section 5.9 and Section 6.2.3, the requirements of this rule shall not apply to emergency standby IC engine or a low-use engine, and provided that it is operated with a properly maintained and operated nonresettable elapsed operating time meter, or an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO.

Section 5.9.1 states that engines subject to Section 4.2 shall comply with the requirements specified in Section 5.9.2 through 5.9.5.

- 5.9.2 Properly operate and maintain each engine as recommended by the engine manufacturer or emission control supplier system.
- 5.9.3 Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control supplier.
- 5.9.4 Install and operate a nonresettable elapsed time meter, or an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and EPA. The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

Section 6.2.3 states that an operator claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following: total hours of operation, type of fuel used, the purpose for operating the engine, for emergency standby engines – all hours of non-emergency and emergency operation shall be reported, and other support documentation necessary to demonstrate claim to the exemption.

The facility operates one IC engine that operates as an emergency standby engine, as defined in Rule 4702. The following conditions will ensure that the engine meets the requirements of emergency standby engines as defined in the rule.

- a. S-7063-17-1: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
  - Conditions 1, 2, 3, 5 through 8, and 14 on the requirements for this permit unit assure compliance with this rule.

**22. District Rule 8011, 8021, 8031, 8041, 8051, 8061, and 8071 – SJVUAPCD Regulation VIII - Fugitive Dust (PM10)**

These regulations contain requirements for the control of fugitive dust. These requirements apply to various sources, including construction, demolition, excavation, extraction, mining activities, outdoor storage piles, paved and unpaved roads.

- a. S-7063-0-1: Facility-Wide Requirements
  - Conditions 29 through 34 on the requirements for the proposed permit comply with these rules.

**23. 40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units**

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



- a. S-7063-8-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Condition 21 on the requirements for the proposed permit complies with this rule.
- b. S-7063-9-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
  - Condition 21 on the requirements for the proposed permit complies with this rule.
- c. S-7063-18-1: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM.
  - Condition 21 on the requirements for the proposed permit complies with this rule.

**24. 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

This provisions of this subpart are applicable to owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005 where the stationary CI ICE are manufactured as a certified National Fire Protection Association fire pump engine July 1, 2006.

- a. S-7063-17-1: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

§60.4205(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emissions standards in Table 4 Subpart IIII of Part 60.

Table 4 Subpart IIII of Part 60

Max Eng Power	Model Year	NMHC+NOx (g/hp-hr)	CO (g/hp-hr)	PM (g/hp-hr)
300 ≤ HP ≤ 600	2008 and earlier	7.8	2.6	0.40

§60.4207(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must purchase diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

§60.4211(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section: (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; (2) Change only those emission-related settings that are permitted by the manufacturer; and (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

- Conditions 3, 6, 7, and 11 on the requirements for the proposed permit comply with this rule.

**25. 40 CFR 61, Subpart M – National Emission Standard for Asbestos**

There are applicable requirements from the National Emissions Standards for Hazardous Air Pollutants that apply to all sources in general. These requirements pertain to asbestos removal and disposal from renovated or demolished structures.

a. S-7063-0-1: Facility-Wide Requirements

- Condition 35 on the requirements for the proposed permit complies with this rule.

**26. 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes

requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

a. S-7063-17-1: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- This engine was installed after 6/12/06, complies with 40 CFR 60 Subpart IIII and, therefore complies with this rule.

**27. 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.

<b>Pollutant</b>	<b>Major Source Threshold (lb/year)</b>
VOC	20,000
NO <sub>x</sub>	20,000
CO	200,000
PM <sub>10</sub>	140,000
SO <sub>x</sub>	140,000

a. S-7063-3-1: 37,403 GALLON POWDER MILK STORAGE SILO #1 SERVED BY 1,000 CFM BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.0055 lb-PM<sub>10</sub>/ton of product. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. Assuming a 99% dust collector efficiency and a permitted product throughput of 255.2 ton/day, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.0055 \text{ lb-PM}_{10}/\text{ton-product} \times 255.2 \text{ ton-product/day} \times 365 \text{ day/yr}) \div (1-0.99) \\ &= \mathbf{51,231 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

- b. S-7063-4-1: 37,403 GALLON POWDER MILK STORAGE SILO #2 SERVED BY 1,000 CFM BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.0055 lb-PM<sub>10</sub>/ton of product. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. Assuming a 99% dust collector efficiency and a permitted product throughput of 255.2 ton/day, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.0055 \text{ lb-PM}_{10}/\text{ton-product} \times 255.2 \text{ ton-product/day} \times 365 \text{ day/yr}) \div (1-0.99) \\ &= \mathbf{51,231 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

- c. S-7063-5-1: 37,403 GALLON POWDER MILK STORAGE SILO #3 SERVED BY 1,000 CFM BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.0055 lb-PM<sub>10</sub>/ton of product. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. Assuming a 99% dust collector efficiency and a permitted product throughput of 255.2 ton/day, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.0055 \text{ lb-PM}_{10}/\text{ton-product} \times 255.2 \text{ ton-product/day} \times 365 \text{ day/yr}) \div (1-0.99) \\ &= \mathbf{51,231 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

- d. S-7063-6-1: 37,403 GALLON POWDER MILK STORAGE SILO #4 SERVED BY 1,000 CFM BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.0055 lb-PM<sub>10</sub>/ton of product. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. Assuming a 99% dust collector efficiency and a permitted product throughput of 255.2 ton/day, the following calculation shows the

pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.0055 \text{ lb-PM}_{10}/\text{ton-product} \times 255.2 \text{ ton-product/day} \times 365 \text{ day/yr}) \div (1-0.99) \\ &= \mathbf{51,231 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

- e. S-7063-7-3: 40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER

This permit unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC due to the combustion of natural gas or LPG 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.

This permit may be subject to CAM for PM<sub>10</sub> since there is a bin vent filter PM<sub>10</sub> emission limit of 0.0055 lb-PM<sub>10</sub>/ton of dry milk powder. The permit unit has an add-on control for PM<sub>10</sub> with the use of dust collectors. Assuming a 99% dust collector efficiency and a permitted dry milk powder daily throughput of 255.2 ton/day, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.0055 \text{ lb-PM}_{10}/\text{ton-dry milk} \times 255.2 \text{ ton-dry milk/day} \times 365 \text{ day/yr}) \div (1-0.99) \\ &= \mathbf{51,231 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

This permit may be subject to CAM for PM<sub>10</sub> since there is a combined PM<sub>10</sub> emission limit of 0.17 lb-PM<sub>10</sub>/ton of dry milk powder. The permit unit has an add-on control for PM<sub>10</sub> with the use of a baghouse. Assuming a 99% dust collector efficiency and a permitted dry milk powder daily throughput of 255.2 ton/day, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is greater than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is subject to CAM for PM<sub>10</sub>.

$$\begin{aligned}\text{Pre-control PM}_{10} &= (0.17 \text{ lb-PM}_{10}/\text{ton- dry milk} \times 255.2 \text{ ton-dry} \\ &\text{milk/day} \times 365 \text{ day/yr}) \div (1-0.99) \\ &= \mathbf{1,583,516 \text{ lb-PM}_{10}/\text{yr} > 140,000 \text{ lb-PM}_{10}/\text{yr}}\end{aligned}$$

$$\begin{aligned}\text{Post-control PM}_{10} &= (0.17 \text{ lb-PM}_{10}/\text{ton- dry milk} \times 255.2 \text{ ton-dry} \\ &\text{milk/day} \times 365 \text{ day/yr}) \\ &= \mathbf{15,835 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}}\end{aligned}$$

Since the post control PM emissions are less than 140,000 lb-PM<sub>10</sub>/yr the daily monitoring visible inspection complies with the minimum monitoring frequency as required by this rule.

CAM compliance requires a daily visible emissions inspection in conjunction with daily monitoring of the pressure differential gauge and is satisfied by monitoring and recordkeeping of differential operating pressure and evaluating visible emissions using EPA method 22. The condition for differential pressure range of 2 to 10 inches of water column is placed on the draft permit based on manufacturer's recommendation. The requirements for corrective action to eliminate visible emissions within 24 hours and also, for excursion from the acceptable range will assure CAM compliance.

- Conditions 3, 5, and 29 through 34 on the requirements for the proposed permit comply with this rule.
- f. S-7063-8-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

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

The boiler is currently operating in compliance with Rule 4320 and therefore is required to meet the NO<sub>x</sub> emissions limit of 0.008 lb/MMBtu (7 ppmv @3%O<sub>2</sub>). To assess whether CAM is triggered

the emissions factor corresponding to pre add-on (FGR) is calculated.

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

	Emissions Factor (lb/10 <sup>6</sup> scf)
Uncontrolled	100
Controlled – low NOx burners	50
Controlled – Low NOx burners/FGR	32

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

$$100 \times (50 - 32)/50 = 36\%$$

$$0.008 / (1 - 0.36) = 0.0125 \text{ lb/MMbtu}$$

and the pre add-on control emissions are

$$0.0125 \text{ lb/MMbtu} \times 63 \text{ MMBtu/hr} \times 8760 \text{ hr/yr}$$

$$= \mathbf{6,899 \text{ lb-NO}_x/\text{yr} < 20,000 \text{ lb-NO}_x/\text{yr}}$$

Therefore, the boiler is not subject to CAM.

- g. S-7063-9-4: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

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

The boiler is currently operating in compliance with Rule 4320 and therefore is required to meet the NO<sub>x</sub> emissions limit of 0.008 lb/MMBtu (7 ppmv @3%O<sub>2</sub>). To assess whether CAM is triggered

the emissions factor corresponding to pre add-on (FGR) is calculated.

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

	Emissions Factor (lb/10 <sup>6</sup> scf)
Uncontrolled	100
Controlled – low NOx burners	50
Controlled – Low NOx burners/FGR	32

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

$$100 \times (50 - 32)/50 = 36\%$$

$$0.008 / (1 - 0.36) = 0.0125 \text{ lb/MMbtu}$$

and the pre add-on control emissions are

$$0.0125 \text{ lb/MMbtu} \times 63 \text{ MMBtu/hr} \times 8760 \text{ hr/yr}$$

$$= \mathbf{6,899 \text{ lb-NO}_x/\text{yr} < 20,000 \text{ lb-NO}_x/\text{yr}}$$

Therefore, the boiler is not subject to CAM.

- h. S-7063-10-2: BAGGING OPERATION CONSISTING OF ONE 1,000 CFM BIN VENT FILTER SERVING THE TOTE BAG FILLER, TWO 850 CFM BIN VENT FILTERS SERVING TWO CAROUSEL FILLERS EACH, AND ONE 10,000 CFM DONALDSON TORIT DUST COLLECTOR MODEL DLMC 2/4/15 SERVING THE BAGGING ROOM

This permit may be subject to CAM for PM<sub>10</sub> since there is a baghouse PM<sub>10</sub> emission limit of 0.001 grains/dscf. The permit unit has an add-on control for PM<sub>10</sub> with the use of a baghouse. From project #S-1072178 and 99% control, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.



$$\begin{aligned}\text{Pre-control PM}_{10} &= (0.001 \text{ gr/dscf} \times 10,000 \text{ dscf/min} \times 1/7,000 \text{ gr/lb} \\ &\quad \times 512,640 \text{ min/yr}) \div (1-0.99) \\ &= \mathbf{73,200 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}}\end{aligned}$$

- i. S-7063-12-2: 40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER

This permit unit has emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC due to the combustion of natural gas or LPG 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.

This permit may be subject to CAM for PM<sub>10</sub> since there is a bin vent filter PM<sub>10</sub> emission limit of 0.059 lb-PM<sub>10</sub>/hr. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. From project #S-1080272, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned}\text{Pre-control PM}_{10} &= (0.059 \text{ lb/hr} \times 24 \text{ hr/day} \times 365 \text{ day}) \\ &= \mathbf{517 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}}\end{aligned}$$

This permit may be subject to CAM for PM<sub>10</sub> since there is a combined PM<sub>10</sub> emission limit of 0.17 lb-PM<sub>10</sub>/ton of dry milk powder. The permit unit has an add-on control for PM<sub>10</sub> with the use of a baghouse. Assuming a 99% dust collector efficiency and a permitted dry milk powder daily throughput of 255.2 ton/day, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is greater than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is subject to CAM for PM<sub>10</sub>.

$$\begin{aligned}\text{Pre-control PM}_{10} &= (0.17 \text{ lb-PM}_{10}/\text{ton-dry milk} \times 255.2 \text{ ton-dry} \\ &\quad \text{milk/day} \times 365 \text{ day/yr}) \div (1-0.99) \\ &= \mathbf{1,583,516 \text{ lb-PM}_{10}/\text{yr} > 140,000 \text{ lb-PM}_{10}/\text{yr}}\end{aligned}$$

$$\begin{aligned}\text{Post-control PM}_{10} &= (0.17 \text{ lb-PM}_{10}/\text{ton-dry milk} \times 255.2 \text{ ton-dry} \\ &\quad \text{milk/day} \times 365 \text{ day/yr}) \\ &= \mathbf{15,835 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}}\end{aligned}$$

Since the post control PM emissions are less than 140,000 lb-PM<sub>10</sub>/yr the daily monitoring visible inspection complies with the minimum monitoring frequency as required by this rule.

CAM compliance requires a daily visible emissions inspection in conjunction with daily monitoring of the pressure differential gauge and is satisfied by monitoring and recordkeeping of differential operating pressure and evaluating visible emissions using EPA method 22. The condition for differential pressure range of 2 to 10 inches of water column is placed on the draft permit based on manufacturer's recommendation. The requirements for corrective action to eliminate visible emissions within 24 hours and also, for excursion from the acceptable range will assure CAM compliance.

- Conditions 3, 5, and 30 through 35 on the requirements for the proposed permit comply with this rule.

j. S-7063-13-1: 37,403 GALLON POWDER MILK STORAGE SILO #5 SERVED BY BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.059 lb-PM<sub>10</sub>/hr. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. From project #S-1080272, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.059 \text{ lb/hr} \times 24 \text{ hr/day} \times 365 \text{ day}) \\ &= \mathbf{517 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

k. S-7063-14-1: 37,403 GALLON POWDER MILK STORAGE SILO #6 SERVED BY BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.059 lb-PM<sub>10</sub>/hr. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. From project #S-1080272, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.059 \text{ lb/hr} \times 24 \text{ hr/day} \times 365 \text{ day}) \\ &= \mathbf{517 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

I. S-7063-15-1: 37,403 GALLON POWDER MILK STORAGE SILO #7 SERVED BY BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.059 lb-PM<sub>10</sub>/hr. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. From project #S-1080272, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.059 \text{ lb/hr} \times 24 \text{ hr/day} \times 365 \text{ day}) \\ &= \mathbf{517 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

m. S-7063-16-1: 37,403 GALLON POWDER MILK STORAGE SILO #8 SERVED BY BIN VENT FILTER

This permit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> emission limit of 0.059 lb-PM<sub>10</sub>/hr. The permit unit has an add-on control for PM<sub>10</sub> with the use of a dust collector. From project #S-1080272, the following calculation shows the pre-control PM<sub>10</sub> potential to emit is less than the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this unit is not subject to CAM for PM<sub>10</sub>.

$$\begin{aligned} \text{Pre-control PM}_{10} &= (0.059 \text{ lb/hr} \times 24 \text{ hr/day} \times 365 \text{ day}) \\ &= \mathbf{517 \text{ lb-PM}_{10}/\text{yr} < 140,000 \text{ lb-PM}_{10}/\text{yr}} \end{aligned}$$

n. C-402-19-2: 317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

This permit unit has emissions limits for NO<sub>x</sub> and PM<sub>10</sub> 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> and PM<sub>10</sub>.

o. S-7063-18-1: 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

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

pollutants. It may be subject to CAM for NO<sub>x</sub> since it has an FGR system that is an add-on control for NO<sub>x</sub>. The following calculations will determine if the pre-control potential to emit will be greater than the major source threshold for NO<sub>x</sub> (20,000 lb/yr).

The boiler is currently operating in compliance with Rule 4320 and therefore is required to meet the NO<sub>x</sub> emissions limit of 0.0062 lb/MMBtu (5 ppmv @3%O<sub>2</sub>). To assess whether CAM is triggered the emissions factor corresponding to pre add-on (FGR) is calculated.

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

	Emissions Factor (lb/10 <sup>6</sup> scf)
Uncontrolled	100
Controlled – low NO <sub>x</sub> burners	50
Controlled – Low NO <sub>x</sub> burners/FGR	32

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

$$100 \times (50 - 32)/50 = 36\%$$

$$0.0062 / (1 - 0.36) = 0.0097 \text{ lb/MMbtu}$$

and the pre add-on control emissions are

$$0.0097 \text{ lb/MMbtu} \times 63 \text{ MMBtu/hr} \times 8760 \text{ hr/yr}$$
$$= \mathbf{5,346 \text{ lb-NO}_x/\text{yr} < 20,000 \text{ lb-NO}_x/\text{yr}}$$

Therefore, the boiler is not subject to CAM.

## 28. 40 CFR Part 82, Subpart B and F – Stratospheric Ozone

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers, and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC).

a. S-7063-0-1: Facility-Wide Requirements

- Conditions 27 and 28 on the requirements for the proposed permit comply with this rule.

**X. PERMIT SHIELD**

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

**A. Requirements Addressed by Model General Permit Templates**

The applicant does not propose to use any model general permit templates.

**XI. PERMIT CONDITIONS**

See draft operating permit beginning on the following page.

# San Joaquin Valley Air Pollution Control District

FACILITY: S-7063-0-1

EXPIRATION DATE: 02/28/2013

## FACILITY-WIDE REQUIREMENTS

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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



36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
40. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
41. On month, day, year, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-3-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #1 SERVED BY 1,000 CFM BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-4-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #2 SERVED BY 1,000 CFM BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-7063-5-1

EXPIRATION DATE: 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #3 SERVED BY 1,000 CFM BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-6-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #4 SERVED BY 1,000 CFM BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-7063-7-3

EXPIRATION DATE: 02/28/2013

## EQUIPMENT DESCRIPTION:

40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

1. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse shall be equipped with an operational pressure differential gauge, mounted in an accessible location, which indicates the pressure drop across the bags. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
4. Visible emissions from the baghouse serving the milk dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
6. The unit shall only be fired on PUC quality natural gas. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
7. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The maximum amount of material processed shall not exceed 255.2 tons of finished product in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Combustion emissions from the natural gas-fired unit shall not exceed any of the following limits: 5.3 ppmvd NOx @ 19% O2 (equivalent to 0.061 lb-NOx/MMBtu), 0.00285 lb-SOx/MMBtu, 0.0076 lb-PM10/MMBtu, 32.6 ppmvd CO @ 19% O2 (equivalent to 0.227 lb-CO/MMBtu), or 0.0055 lb-VOC/MMBtu. If measured O2 concentration is greater than 19%, the corrected NOx or CO concentration is equal to the measured NOx or CO concentration. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
10. The combined combustion and material processing PM10 emission factor from the milk drying operation shall not exceed 0.17 lb/ton finished product. [District Rule 2201] Federally Enforceable Through Title V Permit
11. PM10 emissions from the bin vent filter serving the transfer hopper shall not exceed 0.0055 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Source testing to measure NOx and CO emissions from this unit when fired on natural gas shall be conducted at least once every 24 months thereafter. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. 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
14. 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
15. 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
16. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309] Federally Enforceable Through Title V Permit
17. 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
18. 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
19. 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
20. 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
21. 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 Rule 4309] Federally Enforceable Through Title V Permit
22. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% 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 performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
23. 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
24. 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  
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25. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Permittee shall maintain records which demonstrate the unit is fired exclusively on PUC quality natural gas. [District Rule 4309] Federally Enforceable Through Title V Permit
27. Permittee shall maintain daily records of the amount of material processed. [District Rule 1070] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309] Federally Enforceable Through Title V Permit
29. During each day of operation, the permittee shall record the differential pressure of the baghouses and compare the readings with the permitted range. If the baghouses' differential pressure falls outside the permitted range, the permittee shall take all necessary steps to return the baghouses' differential pressure to within the permitted range as soon as possible, but no longer than three hours after detection. If the differential pressure cannot be returned within the permitted range after three hours of operation following detection, the permittee shall shut the operation down and make all necessary repairs to bring the differential pressure back to within the permitted range. [40 CFR Part 64] Federally Enforceable Through Title V Permit
30. For the baghouses, the permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. For the baghouses, the permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
32. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2) for the Dustex model 3610-14-34 baghouses, the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
33. 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. [40 CFR 64] Federally Enforceable Through Title V Permit
34. Visible emissions from each dust collector shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR 64] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-8-4

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

## PERMIT UNIT REQUIREMENTS

1. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
2. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7.0 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.008 lb-NO<sub>x</sub>/MMBtu, 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
4. Except for those periods necessary to transition services from one boiler to another, conduct mandatory emissions testing, or testing during repairs, only two of the three boilers S-7063-8, -9, and -18 shall operate at any one time. [District Rule 2201 and CEQA] Federally Enforceable Through Title V Permit
5. Periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs shall not exceed 2 hours. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. Source testing to measure NO<sub>x</sub> and CO emissions from this unit while fired on natural gas 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 and 4306] Federally Enforceable Through Title V Permit
9. 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. NO<sub>x</sub> emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

11. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. 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
13. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306] Federally Enforceable Through Title V Permit
14. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306] Federally Enforceable Through Title V Permit
15. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
18. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. Permittee shall maintain records of periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
21. Permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [District Rule 2201 and 40 CFR 60.48c(g)(1)] Federally Enforceable Through Title V Permit

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

22. 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-7063-9-4

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

## PERMIT UNIT REQUIREMENTS

1. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
2. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7.0 ppmvd NOx @ 3% O2 or 0.008 lb-NOx/MMBtu, 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
4. Except for those periods necessary to transition services from one boiler to another, conduct mandatory emissions testing, or testing during repairs, only two of the three boilers S-7063-8, -9, and -18 shall operate at any one time. [District Rule 2201 and CEQA] Federally Enforceable Through Title V Permit
5. Periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs shall not exceed 2 hours. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. Source testing to measure NOx and CO emissions from this unit while fired on natural gas 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 and 4306] Federally Enforceable Through Title V Permit
9. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

11. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. 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
13. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306] Federally Enforceable Through Title V Permit
14. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306] Federally Enforceable Through Title V Permit
15. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
18. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. Permittee shall maintain records of periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
21. Permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [District Rule 2201 and 40 CFR 60.48c(g)(1)] Federally Enforceable Through Title V Permit

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

22. 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-7063-10-2

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

BAGGING OPERATION CONSISTING OF ONE 1,000 CFM BIN VENT FILTER SERVING THE TOTE-BAG FILLER, TWO 850 CFM BIN VENT FILTERS SERVING TWO CAROUSEL FILLERS EACH, AND ONE 10,000 CFM DONALDSON TORIT DUST COLLECTOR MODEL DLMC 2/4/15 SERVING THE BAGGING ROOM

## PERMIT UNIT REQUIREMENTS

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1. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse shall be equipped with an operational pressure differential gauge, mounted in an accessible location, which indicates the pressure drop across the bags. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Visible emissions from the baghouse serving the powder milk bagging operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
8. PM10 emissions from the baghouse serving the bagging room shall not exceed 0.001 grains/dscf. [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
9. The amount of milk powder processed in the bagging operation shall not exceed 510.4 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Permittee shall maintain records of daily bagging system throughput. [District Rule 1070] Federally Enforceable Through Title V Permit
11. 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 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-12-2

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse shall be equipped with an operational pressure differential gauge, mounted in an accessible location, which indicates the pressure drop across the bags. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
4. Visible emissions from the baghouse serving the milk dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
6. The unit shall only be fired on PUC quality natural gas. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
7. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The maximum amount of material processed shall not exceed 255.2 tons of finished product in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Combustion emissions from the natural gas-fired unit shall not exceed any of the following limits: 3.5 ppmvd NO<sub>x</sub> @ 19% O<sub>2</sub> (equivalent to 0.040 lb-NO<sub>x</sub>/MMBtu), 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, 32.6 ppmvd CO @ 19% O<sub>2</sub> (equivalent to 0.227 lb-CO/MMBtu), or 0.0055 lb-VOC/MMBtu. If measured O<sub>2</sub> concentration is greater than 19%, the corrected NO<sub>x</sub> or CO concentration is equal to the measured NO<sub>x</sub> or CO concentration. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
10. The combined combustion and material processing PM<sub>10</sub> emission factor from the milk drying operation shall not exceed 0.17 lb/ton finished product. [District Rule 2201] Federally Enforceable Through Title V Permit
11. PM<sub>10</sub> emissions from the bin vent filter serving the transfer hopper shall not exceed 0.059 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

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



12. Source testing to measure NO<sub>x</sub> and CO emissions from this unit when fired on natural gas shall be conducted within 60 days of initial start-up and at least once every 24 months thereafter. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
13. 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
14. 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
15. 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
16. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309] Federally Enforceable Through Title V Permit
17. 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
18. 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
19. 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
20. PM<sub>10</sub> emissions for source test purposes shall be determined using EPA Method 201 and EPA Method 202, or EPA Method 201a and EPA Method 202 or CARB Method 501 in combination with CARB Method 5. [District Rule 2201] Federally Enforceable Through Title V Permit
21. 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
22. 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 Rule 4309] Federally Enforceable Through Title V Permit
23. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% 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 performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
24. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. 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
26. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall maintain records which demonstrate the unit is fired exclusively on PUC quality natural gas. [District Rule 4309] Federally Enforceable Through Title V Permit
28. Permittee shall maintain daily records of the amount of material processed. [District Rule 1070] Federally Enforceable Through Title V Permit
29. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309] Federally Enforceable Through Title V Permit
30. During each day of operation, the permittee shall record the differential pressure of the baghouses and compare the readings with the permitted range. If the baghouses' differential pressure falls outside the permitted range, the permittee shall take all necessary steps to return the baghouses' differential pressure to within the permitted range as soon as possible, but no longer than three hours after detection. If the differential pressure cannot be returned within the permitted range after three hours of operation following detection, the permittee shall shut the operation down and make all necessary repairs to bring the differential pressure back to within the permitted range. [40 CFR Part 64] Federally Enforceable Through Title V Permit
31. For the baghouses, the permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
32. For the baghouses, the permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
33. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2) for the Dustex model 3610-14-34 baghouses, the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
34. 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. [40 CFR 64] Federally Enforceable Through Title V Permit
35. Visible emissions from each dust collector shall be evaluated using EPA method 22 for a period of at least 6 minutes at least once during each day the dust collector is operated. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR 64] 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-7063-13-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #5 SERVED BY BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.059 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-14-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #6 SERVED BY BIN VENT FILTER

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## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.059 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-15-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #7 SERVED BY BIN VENT FILTER

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## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.059 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-16-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #8 SERVED BY BIN VENT FILTER

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## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. PM10 emissions from the bin vent shall not exceed 0.059 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070] Federally Enforceable Through Title V Permit
5. 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 1070] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-17-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

## PERMIT UNIT REQUIREMENTS

1. 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
2. This engine shall not be used to reduce the demand for electrical power when the electrical power line service has not failed, to produce power for the electrical distribution system, or as part of a voluntary utility demand reduction program or interruptible power contract. [District Rule 2201 and 4702] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 40 CFR 60.4207 (b), and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
5. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.059 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 40 CFR 60.4205(c), 13 CCR 2423, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 3.692 g-NOx/bhp-hr, 0.447-CO/bhp-hr, or 0.086 g-VOC/bhp-hr. [District Rule 2201, 40 CFR 60.4205(c), 13 CCR 2423, and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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
9. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
10. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60.4211(a)] 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-7063-18-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

## PERMIT UNIT REQUIREMENTS

1. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
2. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 5.0 ppmvd NOx @ 3% O2 or 0.0062 lb-NOx/MMBtu, 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
4. Except for those periods necessary to transition services from one boiler to another, conduct mandatory emissions testing, or testing during repairs, only two of the three boilers S-7063-8, -9, and -18 shall operate at any one time. [District Rule 2201 and CEQA] Federally Enforceable Through Title V Permit
5. Periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs shall not exceed 2 hours. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. Source testing to measure NOx and CO emissions from this unit while fired on natural gas 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 and 4306] Federally Enforceable Through Title V Permit
9. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

11. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. 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
13. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306] Federally Enforceable Through Title V Permit
14. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306] Federally Enforceable Through Title V Permit
15. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
18. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. Permittee shall maintain records of periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
21. Permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [District Rule 2201 and 40 CFR 60.48c(g)(1)] Federally Enforceable Through Title V Permit

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

22. 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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# Attachment A

## Detailed Facility Printout

**Detailed Facility Report**  
For Facility=7063 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

CALIFORNIA DAIRIES, INC 2000 NORTH PLAZA DRIVE VISALIA, CA 93291	FAC #	S 7063	TYPE:	TitleV	EXPIRE ON:	02/28/2013
	STATUS:	A	TOXIC ID:		AREA:	1 /
	TELEPHONE:				INSP. DATE:	04/13

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-7063-3-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #1 SERVED BY 1,000 CFM BIN VENT FILTER
S-7063-4-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #2 SERVED BY 1,000 CFM BIN VENT FILTER
S-7063-5-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #3 SERVED BY 1,000 CFM BIN VENT FILTER
S-7063-6-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #4 SERVED BY 1,000 CFM BIN VENT FILTER
S-7063-7-2	40 MMBtu/hr dryer	3020-02 H	1	1,030.00	1,030.00	A	40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
S-7063-8-1	63 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
S-7063-9-1	63 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM
S-7063-10-1	42 hp electric motors	3020-01 B	1	117.00	117.00	A	BAGGING OPERATION CONSISTING OF ONE 1,000 CFM BIN VENT FILTER SERVING THE TOTE BAG FILLER, TWO 850 CFM BIN VENT FILTERS SERVING TWO CAROUSEL FILLERS EACH, AND ONE 10,000 CFM DONALDSON TORIT DUST COLLECTOR MODEL DLMC 2/4/15 SERVING THE BAGGING ROOM
S-7063-12-1	40 MMBtu/hr dryer	3020-02 H	1	1,030.00	1,030.00	A	40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER
S-7063-13-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #5 SERVED BY BIN VENT FILTER
S-7063-14-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #6 SERVED BY BIN VENT FILTER
S-7063-15-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #7 SERVED BY BIN VENT FILTER

**Detailed Facility Report**  
For Facility=7063 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-7063-16-0	37,403 gallons	3020-05 C	1	135.00	135.00	A	37,403 GALLON POWDER MILK STORAGE SILO #8 SERVED BY BIN VENT FILTER
S-7063-17-0	317 BHP	3020-10 C	1	240.00	240.00	A	317 BHP CUMMINS MODEL 6CTAA8.3G3 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
S-7063-18-0	63 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH A NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM.

Number of Facilities Reported: 1

# Attachment B

## Exempt Equipment

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

COMPANY NAME: California Dairies (Visalia)

FACILITY ID: C-7063 -

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

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

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



# Attachment C

## Current District PTO and ATC

# San Joaquin Valley Air Pollution Control District

**FACILITY:** S-7063-0-0

**EXPIRATION DATE:** 02/28/2013

## **FACILITY-WIDE 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]

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: CALIFORNIA DAIRIES, INC  
Location: 2000 NORTH PLAZA DRIVE, VISALIA, CA 93291  
S-7063-0-0 : Jun 8 2012 3:28PM -- SALINASM

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-3-0

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #1 SERVED BY 1,000 CFM BIN VENT FILTER

## **PERMIT UNIT REQUIREMENTS**

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201]
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201]
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070]
5. 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 1070]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-4-0

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #2 SERVED BY 1,000 CFM BIN VENT FILTER

## **PERMIT UNIT REQUIREMENTS**

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201]
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201]
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070]
5. 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 1070]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-5-0

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #3 SERVED BY 1,000 CFM BIN VENT FILTER

## **PERMIT UNIT REQUIREMENTS**

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201]
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201]
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070]
5. 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 1070]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-6-0

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #4 SERVED BY 1,000 CFM BIN VENT FILTER

## **PERMIT UNIT REQUIREMENTS**

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
2. PM10 emissions from the bin vent shall not exceed 0.0055 lb/ton. [District Rule 2201]
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201]
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070]
5. 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 1070]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-7-2

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

40 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO 46,450 CFM CPS MODEL 262-015 BAGHOUSE DUST COLLECTORS, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201]
2. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201]
3. The baghouse shall be equipped with an operational pressure differential gauge, mounted in an accessible location, which indicates the pressure drop across the bags. [District Rule 2201]
4. Visible emissions from the baghouse serving the milk dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
5. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201]
6. The unit shall only be fired on PUC quality natural gas. [District Rules 2201 and 4309]
7. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201]
8. The maximum amount of material processed shall not exceed 255.2 tons of finished product in any one day. [District Rule 2201]
9. Combustion emissions from the natural gas-fired unit shall not exceed any of the following limits: 5.3 ppmvd NO<sub>x</sub> @ 19% O<sub>2</sub> (equivalent to 0.061 lb-NO<sub>x</sub>/MMBtu), 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, 32.6 ppmvd CO @ 19% O<sub>2</sub> (equivalent to 0.227 lb-CO/MMBtu), or 0.0055 lb-VOC/MMBtu. If measured O<sub>2</sub> concentration is greater than 19%, the corrected NO<sub>x</sub> or CO concentration is equal to the measured NO<sub>x</sub> or CO concentration. [District Rules 2201 and 4309]
10. The combined combustion and material processing PM<sub>10</sub> emission factor from the milk drying operation shall not exceed 0.17 lb/ton finished product. [District Rule 2201]
11. PM<sub>10</sub> emissions from the bin vent filter serving the transfer hopper shall not exceed 0.0055 lb/ton. [District Rule 2201]
12. Source testing to measure NO<sub>x</sub> and CO emissions from this unit when fired on natural gas shall be conducted at least once every 24 months thereafter. [District Rules 2201 and 4309]
13. 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]

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

14. 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]
15. 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]
16. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309]
17. 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]
18. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309]
19. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309]
20. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
21. 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 Rule 4309]
22. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% 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 performing the notification and testing required by this condition. [District Rule 4309]
23. 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]
24. 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]
25. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201]
26. Permittee shall maintain records which demonstrate the unit is fired exclusively on PUC quality natural gas. [District Rule 4309]
27. Permittee shall maintain daily records of the amount of material processed. [District Rule 1070]

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



28. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309]

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



## AUTHORITY TO CONSTRUCT

PERMIT NO: S-7063-8-3

ISSUANCE DATE: 04/30/2010

**LEGAL OWNER OR OPERATOR:** CALIFORNIA DAIRIES, INC  
**MAILING ADDRESS:** 2000 NORTH PLAZA DRIVE  
VISALIA, CA 93291

**LOCATION:** 2000 NORTH PLAZA DRIVE  
VISALIA, CA

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM; ADD SLC LIMITING OPERATION OF ONLY TWO OF THE THREE BOILERS S-7063-8, -9 AND -18 AT ANY ONE TIME

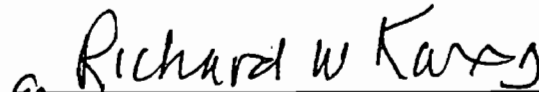
### CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
6. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7.0 ppmvd NOx @ 3% O2 or 0.008 lb-NOx/MMBtu, 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]
7. Except for those periods necessary to transition services from one boiler to another, conduct mandatory emissions testing, or testing during repairs, only two of the three boilers S-7063-8, -9, and -18 shall operate at any one time. [District Rule 2201 and CEQA]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

S-7063-8-3 : Apr 30 2010 4:12PM - EDGEHILL : Joint Inspection NOT Required

8. Periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs shall not exceed 2 hours. [District Rules 2201 and 4320]
9. 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]
10. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
11. Source testing to measure NOx and CO emissions from this unit while fired on natural gas 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 and 4306]
12. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320]
13. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320]
14. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305, 4306 and 4320]
15. 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]
16. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306]
17. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306]
18. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320]
19. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320]
20. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320]

21. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320]
22. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320]
23. Permittee shall maintain records of periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs. [District Rules 1070 and 2201]
24. Permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [District Rule 2201]
25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320]
26. ATC shall be implemented concurrently with or subsequent to ATC S-7063-8-2. [District Rule 2201]

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-8-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

## 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. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201]
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
4. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 8.3 ppmvd NOx @ 3% O2 or 0.010 lb-NOx/MMBtu, 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, and 4306]
5. 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 and 4306]
6. Source testing to measure NOx and CO emissions from this unit while fired on natural gas 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 and 4306]
7. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306]
8. 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]
9. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306]
10. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306]
11. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
12. 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 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
14. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306]
15. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306]
16. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305 and 4306]
17. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO<sub>x</sub> and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305 and 4306]
18. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305 and 4306]
19. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306]
20. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305 and 4306]
21. Permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [District Rule 2201]
22. 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, and 4306]

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



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** S-7063-9-3

**ISSUANCE DATE:** 04/30/2010

**LEGAL OWNER OR OPERATOR:** CALIFORNIA DAIRIES, INC  
**MAILING ADDRESS:** 2000 NORTH PLAZA DRIVE  
VISALIA, CA 93291

**LOCATION:** 2000 NORTH PLAZA DRIVE  
VISALIA, CA

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM: ADD SLC LIMITING OPERATION OF ONLY TWO OF THE THREE BOILERS S-7063-8, -9 AND -18 AT ANY ONE TIME

### CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201]
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
6. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 7.0 ppmvd NOx @ 3% O2 or 0.008 lb-NOx/MMBtu, 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]
7. Except for those periods necessary to transition services from one boiler to another, conduct mandatory emissions testing, or testing during repairs, only two of the three boilers S-7063-8, -9, and -18 shall operate at any one time. [District Rule 2201 and CEQA]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans; specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

S-7063-9-3; Apr 30 2010 4:12PM - EDGEHILL : Joint Inspection NOT Required

8. Periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs shall not exceed 2 hours. [District Rules 2201 and 4320]
9. 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]
10. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
11. Source testing to measure NO<sub>x</sub> and CO emissions from this unit while fired on natural gas 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 and 4306]
12. 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. NO<sub>x</sub> emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320]
13. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306, and 4320]
14. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305, 4306 and 4320]
15. 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]
16. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306]
17. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306]
18. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320]
19. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO<sub>x</sub> and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320]
20. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320]



21. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320]
22. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320]
23. Permittee shall maintain records of periods in which all three boilers S-7063-8, -9, and -18 are operating due to transitioning services from one boiler to another, conducting mandatory emissions testing, or testing during repairs. [District Rules 1070 and 2201]
24. Permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [District Rule 2201]
25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320]
26. ATC shall be implemented concurrently with or subsequent to ATC S-7063-9-2. [District Rule 2201]

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-9-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

63 MMBTU/HR HURST SERIES 400 NATURAL GAS FIRED BOILER WITH AN NOVA PLUS ULTRA LOW NOX COMBUSTION SYSTEM MODEL NVC17-G-40 ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION (FGR) SYSTEM

## 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. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201]
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
4. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 8.3 ppmvd NOx @ 3% O2 or 0.010 lb-NOx/MMBtu, 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, and 4306]
5. 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 and 4306]
6. Source testing to measure NOx and CO emissions from this unit while fired on natural gas 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 and 4306]
7. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306]
8. 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]
9. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306]
10. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306]
11. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
12. 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 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
14. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4306]
15. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306]
16. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305 and 4306]
17. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO<sub>x</sub> and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305 and 4306]
18. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305 and 4306]
19. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306]
20. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305 and 4306]
21. Permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [District Rule 2201]
22. 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, and 4306]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-10-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

BAGGING OPERATION CONSISTING OF ONE 1,000 CFM BIN VENT FILTER SERVING THE TOTE BAG FILLER, TWO 850 CFM BIN VENT FILTERS SERVING TWO CAROUSEL FILLERS EACH, AND ONE 10,000 CFM DONALDSON TORIT DUST COLLECTOR MODEL DLMC 2/4/15 SERVING THE BAGGING ROOM

## PERMIT UNIT REQUIREMENTS

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1. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201]
2. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201]
3. The baghouse shall be equipped with an operational pressure differential gauge, mounted in an accessible location, which indicates the pressure drop across the bags. [District Rule 2201]
4. Visible emissions from the baghouse serving the powder milk bagging operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
5. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201]
6. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201]
7. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201]
8. PM10 emissions from the baghouse serving the bagging room shall not exceed 0.001 grains/dscf. [District Rules 2201 and 4201]
9. The amount of milk powder processed in the bagging operation shall not exceed 510.4 tons in any one day. [District Rule 2201]
10. Permittee shall maintain records of daily bagging system throughput. [District Rule 1070]
11. 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 1070]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-12-1

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

40.0 MMBTU/HR CPS NATURAL GAS-FIRED MILK SPRAY DRYER WITH A MAXON CROSSFIRE MODEL 7BIXFLDR ULTRA LOW NOX BURNER SERVED BY FOUR CYCLONES AND TWO CPS BAGHOUSES, SHAKING FLUID BED AND SURGE HOPPER SERVED BY THE CPS BAGHOUSES, AND ONE TRANSFER HOPPER SERVED BY A BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201]
2. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201]
3. The baghouse shall be equipped with an operational pressure differential gauge, mounted in an accessible location, which indicates the pressure drop across the bags. [District Rule 2201]
4. Visible emissions from the baghouse serving the milk dryer shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
5. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column. [District Rule 2201]
6. The unit shall only be fired on PUC quality natural gas. [District Rules 2201 and 4309]
7. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201]
8. The maximum amount of material processed shall not exceed 255.2 tons of finished product in any one day. [District Rule 2201]
9. Combustion emissions from the natural gas-fired unit shall not exceed any of the following limits: 3.5 ppmvd NO<sub>x</sub> @ 19% O<sub>2</sub> (equivalent to 0.040 lb-NO<sub>x</sub>/MMBtu), 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, 32.6 ppmvd CO @ 19% O<sub>2</sub> (equivalent to 0.227 lb-CO/MMBtu), or 0.0055 lb-VOC/MMBtu. If measured O<sub>2</sub> concentration is greater than 19%, the corrected NO<sub>x</sub> or CO concentration is equal to the measured NO<sub>x</sub> or CO concentration. [District Rules 2201 and 4309]
10. The combined combustion and material processing PM<sub>10</sub> emission factor from the milk drying operation shall not exceed 0.17 lb/ton finished product. [District Rule 2201]
11. PM<sub>10</sub> emissions from the bin vent filter serving the transfer hopper shall not exceed 0.059 lb/hr. [District Rule 2201]
12. Source testing to measure NO<sub>x</sub> and CO emissions from this unit when fired on natural gas shall be conducted within 60 days of initial start-up and at least once every 24 months thereafter. [District Rules 2201 and 4309]
13. 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]
14. 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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15. 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]
16. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309]
17. 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]
18. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309]
19. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309]
20. PM<sub>10</sub> emissions for source test purposes shall be determined using EPA Method 201 and EPA Method 202, or EPA Method 201a and EPA Method 202 or CARB Method 501 in combination with CARB Method 5. [District Rule 2201]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. 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 Rule 4309]
23. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% 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 performing the notification and testing required by this condition. [District Rule 4309]
24. 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]
25. 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]
26. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201]
27. Permittee shall maintain records which demonstrate the unit is fired exclusively on PUC quality natural gas. [District Rule 4309]
28. Permittee shall maintain daily records of the amount of material processed. [District Rule 1070]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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29. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 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-7063-13-0

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #5 SERVED BY BIN VENT FILTER

## **PERMIT UNIT REQUIREMENTS**

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
2. PM10 emissions from the bin vent shall not exceed 0.059 lb/hr. [District Rule 2201]
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201]
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070]
5. 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 1070]

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-14-0

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #6 SERVED BY BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
2. PM10 emissions from the bin vent shall not exceed 0.059 lb/hr. [District Rule 2201]
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201]
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070]
5. 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 1070]

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-7063-15-0

**EXPIRATION DATE:** 02/28/2013

**EQUIPMENT DESCRIPTION:**

37,403 GALLON POWDER MILK STORAGE SILO #7 SERVED BY BIN VENT FILTER

## PERMIT UNIT REQUIREMENTS

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1. Visible emissions from the bin vent filter serving the silo shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201]
2. PM10 emissions from the bin vent shall not exceed 0.059 lb/hr. [District Rule 2201]
3. The amount of milk powder transferred to each silo shall not exceed 255.2 tons in any one day. [District Rule 2201]
4. Permittee shall maintain accurate records of daily amount of milk powder transferred to the silo. [District Rule 1070]
5. 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 1070]

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