



**NOV 13 2013**

Mr. George Borba  
Bellanave Corporation  
14461 Hwy 119  
Bakersfield, CA 93311

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit  
District Facility # S-4692  
Project # S-1130896**

Dear Mr. Borba:

Enclosed for your review is the District's analysis of Bellanave Corporation's application for the Federally Mandated Operating Permit for its operation at 14461 Hwy 119, Bakersfield, California.

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

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

Sincerely,

David Warner  
Director of Permit Services

Enclosures

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

**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

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

**Bellanave Corporation**

## **PROPOSED ENGINEERING EVALUATION TABLE OF CONTENTS**

<b>SECTION</b>	<b>PAGE</b>
<b>I. PROPOSAL</b>	<b>1</b>
<b>II. FACILITY LOCATION</b>	<b>1</b>
<b>III. EQUIPMENT LISTING</b>	<b>1</b>
<b>IV. GENERAL PERMIT TEMPLATE USAGE</b>	<b>2</b>
<b>V. SCOPE OF EPA AND PUBLIC REVIEW</b>	<b>2</b>
<b>VI. APPLICABLE REQUIREMENTS ADDRESSED BY A GENERAL PERMIT TEMPLATE</b>	<b>2</b>
<b>VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY A GENERAL PERMIT TEMPLATE</b>	<b>2</b>
<b>VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE</b>	<b>4</b>
<b>IX. COMPLIANCE</b>	<b>5</b>
<b>X. PERMIT CONDITIONS</b>	<b>35</b>
<b>ATTACHMENT A - DETAILED FACILITY PRINTOUT</b>	
<b>ATTACHMENT B - SJVUAPCD PERMITS</b>	

# **TITLE V APPLICATION REVIEW**

Project #: S-1130896  
Deemed Complete: March 21, 2013

Engineer: Dennis Roberts  
Date: April 8, 2013

Facility Number: S-4692  
Facility Name: Bellanave Corporation  
Mailing Address: 14461 Hwy 119  
Bakersfield, CA 93311

Contact Name: George Borba  
Phone: 661-837-8221

Responsible Official: Ryan Ferenci  
Title: CFO

## **I. PROPOSAL**

Bellanave Corporation is proposing that an initial Title V permit be issued for its dairy farm located at 14461 Hwy 119 in Bakersfield, Kern County, 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**

Bellanave Corporation is located at 14461 Hwy 119, Bakersfield, in Kern County, CA.

## **III. EQUIPMENT LISTING**

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

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

The applicant has chosen to not use any model general permit templates.

## **V. SCOPE OF EPA AND PUBLIC REVIEW**

The applicant has not requested to utilize any model general permit templates. Therefore, the proposed permit in its entirety is subject to EPA and public review.

## **VI. APPLICABLE 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. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES**

- District Rule 1081 - Source Sampling (Amended December 16, 1993)
- District Rule 1100 - Equipment Breakdown (Amended December 17, 1992) (Non SIP replacement for Kern County Rule 111)
- District Rule 1160 - Emission Statements (Adopted November 18, 1992)
- District Rule 2010 - Permits Required (Amended December 17, 1992)
- District Rule 2020 - Exemptions (Amended December 20, 2007 (SIP version of the Rule) ⇒ Amended August 18, 2011)
- District Rule 2031 - Transfer of Permits (Amended December 17, 1992)
- District Rule 2040 - Applications (Amended December 17, 1992)
- District Rule 2070 - Standards for Granting Applications (Amended December 17, 1992)
- District Rule 2080 - Conditional Approval (Amended December 17, 1992)
- District Rule 2201 - New and Modified Stationary Source Review Rule (amended April 21, 2011)
- District Rule 2410 – Prevention of Significant Deterioration (adopted June 16, 2011)
- District Rule 2520 - Federally Mandated Operating Permits (Amended June 21, 2001)
- District Rule 4101 - Visible Emissions (Amended February 17, 2005)
- District Rule 4103 - Open Burning (Amended April 15, 2010)
- District Rule 4201 - Particulate Matter Concentration (Amended December 17, 1992)

- District Rule 4550 - Conservation Management Practices (Adopted August 19, 2004)
- District Rule 4570 - Confined Animal Facilities (Amended October 21, 2010)
- District Rule 4601 - Architectural Coatings (Amended December 17, 2009)
- District Rule 4621 - Gasoline Transfer into Stationary Storage Containers, Delivery Vessels, and Bulk Plants (Amended December 20, 2007)
- District Rule 4622 - Gasoline Transfer into Motor Vehicle Fuel Tanks (Amended December 20, 2007)
- District Rule 4701 - Internal Combustion Engines – Phase 1 (Amended August 21, 2003)
- District Rule 4702 - Internal Combustion Engines (Amended January 18, 2007 (SIP version of the Rule) ⇒ Amended August 18, 2011)
- District Rule 4801 - Sulfur Compounds (Amended December 17, 1992) (Non SIP replacement for Kern County Rule 407)
- District Rule 8011 - General Requirements (Amended August 19, 2004)
- District Rule 8021 - Construction, Demolition, Excavation, extraction, and Other Earthmoving Activities (Amended August 19, 2004)
- District Rule 8031 - Bulk Materials (Amended August 19, 2004)
- District Rule 8041 - Carryout and Trackout (Amended August 19, 2004)
- District Rule 8051 - Open Areas (Amended August 19, 2004)
- District Rule 8061 - Paved and Unpaved Roads (Amended August 19, 2004)
- District Rule 8071 - Unpaved Vehicle/Equipment Traffic Areas (Amended September 16, 2004)
- District Rule 8081 - Agricultural Sources (Amended September 16, 2004)
- 40 CFR Part 61 Subpart M - National Emission Standard for Asbestos
- 40 CFR Part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- 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 Subparts B & 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:

### 1. District Rule 4102 - Nuisance (amended December 17, 1992)

This rule prevents the discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property.

#### a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 45 of the facility-wide requirements is based on the rule listed above and is not Federally Enforceable through Title V.

#### b. *S-4692-19-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)*

- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.

#### c. *S-4692-20-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)*

- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.

#### d. *S-4692-21-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)*

- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- e. *S-4692-22-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- f. *S-4692-23-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- g. *S-4692-24-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- h. *S-4692-27-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)*
- Condition 9 of the requirements for this permit unit is completely based on the rule listed above and is not Federally Enforceable through Title V.
  - Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.

- i. *S-4692-28-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- j. *S-4692-29-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- k. *S-4692-30-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- l. *S-4692-31-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- m. *S-4692-32-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)*
- Condition 6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.



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

- a. *S-4692-5-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)*
- Conditions 3 and 8 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- b. *S-4692-10-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)*
- Condition 4-6 of the requirements for this permit unit is partially based on the rule listed above. However, it is Federally Enforceable through Title V since it references other federally enforceable requirements which will be discussed under the applicable sections of this document.
- c. *S-4692-19-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- d. *S-4692-20-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- e. *S-4692-21-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally

enforceable requirements which will be discussed under the applicable sections of this document.

- f. *S-4692-22-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- g. *S-4692-23-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- h. *S-4692-24-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- i. *S-4692-27-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)*
- Conditions 6-8 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- j. *S-4692-28-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally

enforceable requirements which will be discussed under the applicable sections of this document.

- k. *S-4692-29-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- l. *S-4692-30-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- m. *S-4692-31-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.
- n. *S-4692-32-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)*
- Conditions 5-7 of the requirements for this permit unit are partially based on the rule listed above. However, they are Federally Enforceable through Title V since they reference other federally enforceable requirements which will be discussed under the applicable sections of this document.

### **3. Public Resources Code 21000-21177: California Environmental Quality Act (CEQA)**

#### *a. S-4692-0-1: Facility-Wide Requirements*

- Condition 1 of the requirements of the facility-wide permit is based on compliance with this requirement.

**IX. COMPLIANCE**

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

The applicant is not proposing to use a general permit template for this category. Compliance with all federally applicable requirements will be addressed in the following section of this engineering evaluation.

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

**1. 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 set forth breakdown procedures and reporting requirements. District Rule 1100 has been submitted to the EPA to replace Kern County Rule 111. District Rule 1100 is at least as stringent as the county SIP rule addressing breakdowns, as shown in Table 1 below.

<b>Table 1: Comparison of District Rule 1100 to Kern County Rule 111</b>		
<b>REQUIREMENTS</b>	<b>District Rule 1100</b>	<b>Kern County Rule 111</b>
A breakdown occurrence must be reported as soon as reasonably possible but no later than 1 hour after detection.	✓	(allows 2 hrs)
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).	✓	✓
A report must be submitted to the APCO within 10 days of the correction of the breakdown occurrence which includes:	✓	✓
A statement that the breakdown condition has been corrected, together with the date of correction and proof of compliance.	✓	✓
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.	✓	✓
A description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future.	✓	✓
Pictures of the equipment or controls which failed if available.	✓	✓

a. *S-4692-0-1: Facility-Wide Requirements*

- Conditions 3, and 4 of the requirements of the facility-wide permit assure compliance with this rule.

**2. 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 may waive this requirement for sources emitting less than 25 tons per year of these pollutants if the District provides the 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-4692-0-1: Facility-Wide Requirements*

- Condition 5 of the requirements of the facility-wide permit assures compliance with this rule.

**3. District Rule 2010 – Permits Required**

Sections 3.0 and 4.0 of District Rule 2010 require 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-4692-0-1: Facility-Wide Requirements*

- Condition 6 of the requirements of the facility-wide permit assures compliance with this rule.

**4. District Rule 2020 – Exemptions**

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions.

District Rule 2020 was last amended on August 18, 2011. The primary purpose of the amendment was to correct a deficiency noted by EPA

regarding referencing the California Health and Safety Code (CH&SC) as part of the exemption for agricultural sources. On May 11, 2010, EPA finalized a limited approval and limited disapproval of District Rule 2020 because the permitting exemption for agricultural sources referenced the CH&SC where the State law has not been submitted for inclusion in the SIP. On August 18, 2011, the District amended Rule 2020 to address this deficiency by replacing the reference to the CH&SC with clear wording explaining that the exemption applied to agricultural sources with emissions less than one-half of the major source thresholds and that are not required to obtain Title V permits pursuant to District Rule 2520. The amendment also added a definition for agricultural sources and included an exemption for wind machines, which are only used a few nights a year to protect certain crops (e.g. citrus) from frost when temperatures are predicted to drop below 28 °F and have and have been treated as insignificant sources of emissions. On December 6, 2011, EPA proposed to approve the August 18, 2011 version of District Rule 2020 into the SIP (76 FR 76112). Because the amendments to District Rule 2020 do not affect the requirements for the permit units at this facility, the changes will not be addressed further in this evaluation.

a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 6 of the requirements of the facility-wide permit assures compliance with this rule.

**5. District Rule 2031 – Transfer of Permits**

District Rule 2031 prohibits the transfer of Permits to Operate or Authorities to Construct 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 District.

a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 8 of the requirements of the facility-wide permit assures compliance with this rule.

**6. 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-4692-0-1: Facility-Wide Requirements*

- Condition 9 of the requirements of the facility-wide permit assures compliance with this rule.

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

District Rule 2070 requires sources to be constructed and operated as specified in the Authority to Construct and the Permit to Operate and requires that source comply with the applicable requirements of District Rule 2201 (New and Modified Stationary Source Review Rule), District Rule 4001 (New Source Performance Standards), and District Rule 4002 (National Emissions Standards for Hazardous Air Pollutants). District Rule 2070 also explains the standards by which an APCO may deny an application for an Authority to Construct or Permit to Operate.

a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 7 of the requirements of the facility-wide permit assures compliance with this rule.

**8. District Rule 2080 - Conditional Approval**

District Rule 2080 grants the Air Pollution Control Officer (APCO) the authority to issue or revise specific written conditions on an Authority to Construct or a Permit to Operate to assure compliance with emission standards or limitations.

a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 7 of the requirements of the facility-wide permit assures compliance with this rule.

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

District Rule 2201 applies to new and modifying sources that require a District permit. Previously, agricultural operations in California were exempt from District permitting requirements. Pursuant to California Senate Bill (SB) 700 and effective January 1, 2004, agricultural operations with emissions exceeding ½ the major source threshold for any affected pollutant became subject to District permitting requirements. Permit units '1-3 to '4-3, '5-1, '10-1, '25-1, and '26-2 did not require a permit at the time of installation. Therefore, pursuant to Section 9.0 of District Rule 2020 – Exemptions, these units were not subject to the requirements of District

Rule 2201 during the initial permitting action and will not be subject to District Rule 2201 until modified.

Permit units '19-1 to '24-1 and '27-1 to '32-1 are subject to the District NSR Rule 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 Permit to Operate (PTO) were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- a. *S-4692-19-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)*
  - Conditions 6-9 and 13 from the current PTOs have been included as conditions 4-7 and 11 of the requirements for the proposed permits.
- b. *S-4692-20-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)*
  - Conditions 6-9 and 13 from the current PTOs have been included as conditions 4-7 and 11 of the requirements for the proposed permits.
- c. *S-4692-21-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)*
  - Conditions 6-9 and 13 from the current PTOs have been included as conditions 4-7 and 11 of the requirements for the proposed permits.
- d. *S-4692-22-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)*
  - Conditions 6-9 and 13 from the current PTOs have been included as conditions 4-7 and 11 of the requirements for the proposed permits.
- e. *S-4692-23-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)*
  - Conditions 6-9 and 13 from the current PTOs have been included as conditions 4-7 and 11 of the requirements for the proposed permits.



- f. S-4692-24-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)
- Conditions 6-9 and 13 from the current PTOs have been included as conditions 4-7 and 11 of the requirements for the proposed permits.
- g. S-4692-27-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)
- Conditions 4, 7-10 and 14 from the current PTOs have been included as conditions 1, 4-7, and 12 of the requirements for the proposed permits.
- h. S-4692-28-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)
- Conditions 1, 6-9 and 13 from the current PTOs have been included as conditions 1, 4-7, and 11 of the requirements for the proposed permits.
- i. S-4692-29-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)
- Conditions 1, 6-9 and 13 from the current PTOs have been included as conditions 1, 4-7, and 11 of the requirements for the proposed permits.
- j. S-4692-30-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)
- Conditions 1, 6-9 and 13 from the current PTOs have been included as conditions 1, 4-7, and 11 of the requirements for the proposed permits.
- k. S-4692-31-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)
- Conditions 1, 6-9 and 13 from the current PTOs have been included as conditions 1, 4-7, and 11 of the requirements for the proposed permits.

- I. *S-4692-32-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)*
  - Conditions 1, 6-9 and 13 from the current PTOs have been included as conditions 1, 4-7, and 11 of the requirements for the proposed permits.

#### **10. District Rule 2410 – Prevention of Significant Deterioration**

District Rule 2410 applies to the construction of any new major stationary source or any project at an existing major PSD stationary source in an area designated as attainment or or in areas that are unclassifiable for any criteria air pollutant. This facility is not a major source for any criteria pollutant pursuant to 40 CFR 52.21(b)(1)(i) and therefore the provisions of Rule 2410 are not applicable to this facility.

#### **11. 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 the necessary procedural and compliance requirements.

Per Section 3.30, a stationary source: same as that defined in District Rule 2201 (New and Modified Stationary Source Review)—Stationary Source: any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a fugitive emission. Building, structure, facility or installation includes all pollutant emitting activities including emissions units which:

- Are under the same or common ownership or operation, or which are owned or operated by entities which are under common control; and

- Belong to the same industrial grouping either by virtue of falling within the same two-digit standard industrial classification code or by virtue of being part of a common industrial process, manufacturing process, or connected process involving a common raw material; and
- Are located on one or more contiguous or adjacent properties; or
- Are located on one or more properties wholly within either the Western Kern County Oil Fields or the Central Kern County Oil Fields or Fresno County Oil Fields and are used for the production of light oil, heavy oil or gas. Notwithstanding the provisions of this definition, light oil production, heavy oil production, and gas production shall constitute separate Stationary Sources.

Per the Clean Air Act (CAA), Title 42, Chapter 85, Subchapter III, Section 7602(z), the term "stationary source" means generally any source of an air pollutant except those emissions resulting directly from an internal combustion engine for transportation purposes or from a nonroad engine or nonroad vehicle.

Section 5.2 of District Rule 2520 requires that permittees submit applications for Title V permit renewal at least six months prior to permit expiration.

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 9.3.2 of District Rule 2520 requires that each permit contain periodic monitoring or testing to assure compliance with federally enforceable emission limits or other requirements if none is associated with the applicable requirement. Recordkeeping may be sufficient to meet the requirements of this section. Monitoring and recordkeeping requirements have been incorporated into the permit as appropriate.

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.

Section 9.5 of District Rule 2520 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.

Section 9.7 states that the Title V permit must contain a severability clause in the event of challenge to any portion of the permit.

Section 9.8 of District Rule 2520 contains requirements for provisions in the Title V permit stating the following: 1) the permittee must comply with all permit conditions. Noncompliance with permit conditions constitutes a violation of the Clean Air Act and District Rules and Regulations, and is grounds for enforcement action; 2) it should not be a defense 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; 3) the permit may be revoked, modified, reissued, or reopened for cause; 4) the Title V permit does not convey any property rights of any sort or reflect any exclusive privilege, and 5) the permittee will furnish the District with any requested information to determine compliance with the conditions of the Title V permit.

Section 9.9 of District Rule 2520 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.

Section 9.13.1 of District Rule 2520 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.

Section 9.13.2 of District Rule 2520 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.

Section 9.14.1 of District Rule 2520 requires that, for sources in violation of an applicable requirement, a schedule of compliance be included in the Title V permit. This source has not been determined to be in violation of any applicable requirements.

Section 9.16 of District Rule 2520 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).

Section 10.0 of District Rule 2520 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.

### Mandatory Greenhouse Gas Reporting

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.

a. *S-5139-0-1: Facility-Wide Requirements*

- Conditions 7, 10-23, 28, and 39-41 of the requirements of the facility-wide permit assure compliance with this rule.

## **12. 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. Pursuant to Section 4.12, this rule does not apply to emissions subject to or specifically exempt from District Regulation VIII – Fugitive PM10 Prohibitions; therefore, this rule does not apply to emissions from on-field and off-field agricultural operations.

a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 24 of the requirements of the facility-wide permit assures compliance with this rule.

## **13. District Rule 4103 - Open Burning**

The purpose of this rule is to permit, regulate, and coordinate the use of open burning while minimizing smoke impacts on the public.

This rule applies to open burning conducted in the San Joaquin Valley Air Basin, with the exception of prescribed burning and hazard reduction

burning as defined in Rule 4106 (Prescribed Burning and Hazard Reduction Burning).

Pursuant to Section 4.3, the following activities are exempt from the no-burn day restrictions, subject to APCO authorization and permit requirements.

Pursuant to Section 5.1.4, the Permit-to-Operate application or Authority-to-Construct application shall include the following information, which is in addition to the facility emission mitigation plan:

1. The burning of empty sacks which contained pesticides or other toxic substances, provided that the sacks are within the definition of agricultural burning
2. The burning of paper raisin trays
3. Other agricultural burning, if the denial of such burning would threaten imminent and substantial economic loss, and which is conducted pursuant to the following provisions:
  - a. The APCO may only authorize such burning when downwind metropolitan areas are forecast by the District to achieve the ambient air quality standards and/or a fire agency has not declared a no-burn day due to safety issues.
  - b. The District shall limit the amount of acreage that can be burned on any one no-burn day in any one county to 200 acres.
  - c. The granting of an exemption does not exempt the applicant from any other District or fire control regulations.
  - d. Within 15 days of receiving an exemption, the applicant shall return a signed application form that provides the reasons for requesting the exemption and shall pay the required District fee.

Section 5.1 requires that, except as otherwise provided in this rule, no person shall set, permit, or use an open outdoor fire for the purpose of disposal or burning of petroleum wastes; demolition or construction debris; residential rubbish; garbage or vegetation; tires; tar; trees; wood waste; or other combustible or flammable solid, liquid or gaseous waste; or for metal salvage or burning of motor vehicle bodies.

Section 5.2 stipulates that the APCO allocate burning based on the predicted meteorological conditions and whether the total tonnage to be emitted would allow the volume of smoke and other contaminants to cause a public nuisance, impact smoke sensitive areas, or create or contribute to an exceedance of an ambient air quality standard.

Section 5.3 stipulates that the APCO shall restrict the time of day when burns are ignited and conducted, as necessary.

Section 5.5.1 stipulates that, except for crops covered by Section 5.5.2, no permit shall be issued for the burning of the following categories of agricultural waste: field crops, prunings, weed abatement, except for the categories covered by Section 5.5.3, orchard removals, vineyard removal materials, surface harvested prunings, and other materials.

Pursuant to Section 5.5.2, the District may postpone the prohibitions in Section 5.5.1 and may issue permits for the burning of any agricultural waste, if all of the following criteria are met:

1. The Board determines that there is no economically feasible alternative means of eliminating the waste.
2. The Board determines that there is no long-term federal or state funding commitment for the continued operation of biomass facilities in the San Joaquin Valley or development of alternatives to burning.
3. The Board determines that the continued issuance of permits for that specific category or crop will not cause, or substantially contribute to, a violation of an applicable federal ambient air quality standard.
4. The California Air Resources Board concurs with the Board's determinations pursuant to this section.

Section 6.1 - Open Burn Permits, stipulates that no open burning shall be conducted or allowed unless the applicant provides all required information and obtains the appropriate permits from the APCO and other agencies with jurisdiction. Only material clearly described and quantified in the permit may be burned. Burning shall be conducted in accordance with the requirements of the permit and is only allowed on days specified by the District.

According to the information supplied by the applicant, this agricultural facility produces alfalfa, corn, and wheat and other grains. The District has not determined that these crops qualify for the postponement of prohibition of open burning provided in Section 5.5.2. Therefore, burning of the agriculture residues produced at this facility is prohibited. The information provided in the applicant's Conservation Management Practice (CMP) Plan for compliance with District Rule 4550 states that no burning of agricultural waste occurs at this facility.

The District's burn permit program will continue to assure ongoing compliance with the requirements of 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 3.0 prohibits

the discharge into the atmosphere of dust, fumes, or total suspended particulate matter from any single source operation in excess of 0.1 grain per cubic foot of gas at dry standard conditions.

Permit Units S-4692-10, '-19 through '-24 and '-27 through '-32

The diesel-fired IC engines permitted as units S-4692-10, -19 through -24 and -27 through -32 are certified to US EPA Tier 3 standards with PM emissions no greater than 0.15 g/bhp-hr. The following calculation demonstrates that the particulate matter emissions from these units will not exceed the rule limit of 0.1 grain per cubic foot of gas at dry standard conditions:

$$\left(\frac{0.15 \text{ g - PM}}{\text{bhp - hr}}\right) \times \left(\frac{1 \text{ bhp - hr}}{2,545 \text{ Btu}}\right) \times \left(\frac{10^6 \text{ Btu}}{9,051 \text{ dscf}}\right) \times \left(\frac{0.30 \text{ Btu (out)}}{1 \text{ Btu (in)}}\right) \times \left(\frac{15.43 \text{ gr}}{1 \text{ g}}\right) = 0.03 \frac{\text{grain}}{\text{dscf}}$$

Where:

- 0.15 g-PM/bhp-hr - PM Emission Factor for Tier 3 Certified Engine
- 2,545 Btu/bhp-hr - conversion factor for bhp-hr to Btu
- 9,051 dscf/10<sup>6</sup> Btu - Diesel F Factor @ 60 °F (40 CFR 60, Appendix A-7, Table 19-2 - 9,190 dscf/10<sup>6</sup> Btu @ 68 °F)
- 0.30 - Typical thermal efficiency of engines
- 15.43 gr/g - Conversion factor for grams to grains

0.03 gr/dscf < 0.1 gr/dscf; therefore, the diesel-fired IC engines permitted as units S-5139-5 and -6 are expected to comply with the emission limit of this rule.

Permit Unit S-4692-5

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, 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 standby diesel-fired engines in this facility are 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-4692-5-1, '-10-1, '-19-1 through '-24-1 and '-27-1 through '-32-1:  
(ALL DIESEL ENGINES AT FACILITY)
    - Condition 1 of the requirements for these permit units assures compliance with this rule.

#### **15. District Rule 4550 - Conservation Management Practices**

This rule applies to agricultural operation sites located within the San Joaquin Valley Air Basin. The purpose of this rule is to limit fugitive dust emissions from agricultural operation sites.

Pursuant to Section 5.1, effective on and after July 1, 2004, an owner/operator shall implement the applicable CMPs selected pursuant to Section 6.2 for each agricultural operation site.

Pursuant to Section 5.2, an owner/operator shall prepare and submit a CMP application for each agricultural operation site, pursuant to Section 6.0, to the APCO for approval. The facility has submitted a CMP application for each of their agricultural site, and is therefore in compliance.

Pursuant to Section 5.3, except as provided by Section 5.4, an owner/operator shall implement the CMPs as contained in the CMP Plan approved pursuant to Section 6.0 for each agricultural operation site no later than ten (10) days after notification by the APCO of the approval of the CMP Application.

Pursuant to Section 6.2, an owner/operator shall select one CMP from the CMP list for each of the applicable CMP categories.

Pursuant to Section 6.2.3, an owner/operator may select a substitute CMP from another CMP category when no feasible CMP can be identified from one category. This provision does not apply for the unpaved road, and unpaved vehicle/equipment traffic area CMP categories.

Pursuant to Section 6.3, an owner/operator shall submit a CMP Application, prepared pursuant to Section 6.1, to the APCO: 1) within 90 days for an agricultural operation site or an agricultural parcel that is

acquired or becomes subject to the provisions of Section 5.0 after October 31, 2004, 2) within 60 days of any operational, administrative, or other modification that necessitates the revision of the CMP Plan.

Pursuant to Section 6.5.1, an owner/operator subject to Section 5.0 shall maintain a copy of each CMP application, CMP plan, and any supporting information necessary to confirm the implementation of the CMPs for a minimum of five (5) years.

a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 44 of the requirements of the facility-wide permit assures compliance with this rule.

**16. District Rule 4570 – Confined Animal Facilities**

The purpose of this rule is to limit emissions of volatile organic compounds (VOC) from Confined Animal Facilities (CAF). The provisions of this rule apply to any Confined Animal Facility

Pursuant to Section 3.19, a Confined Animal Facility (CAF) is defined as a facility where animals are corralled, penned, or otherwise caused to remain in restricted areas for commercial purposes and primarily fed by a means other than grazing for at least forty-five (45) days in any twelve (12) month period.

Pursuant to Section 3.37, a Large Dairy CAF is defined as a CAF that maintains, on any one day, at least the following number of animals:

<b>Table 2: Large CAF Definition by Livestock Category</b>	
<b>Livestock Category</b>	<b>Large CAF Definition</b>
Dairy	1,000 milking cows
Beef Feedlots	3,500 beef cattle
Other Cattle Facility	7,500 calves, heifers, or other cattle
Poultry Facilities	
Chicken	650,000 head
Duck	650,000 head
Turkey	100,000 head
Swine Facility	3,000 head
Horses Facility	2,500 head
Sheep and Goat Facilities	15,000 head of sheep, goats, or any combination of the two
Any livestock facility not listed above	30,000 head

Pursuant to Section 3.41, a Medium Dairy CAF is defined as a dairy CAF that maintains, on any one day, at least 500 milking cows, but is not a large dairy CAF.

Pursuant to Section 4.0, except for the recordkeeping requirements of Section 7, the provisions of this rule do not apply to a CAF, which remains at all times below all of the following regulatory thresholds:

<b>Table 3: CAF Thresholds for Regulation</b>		
<b>Livestock Category</b>	<b>Regulatory Threshold Through October 21, 2010</b>	<b>Regulatory Threshold On and after October 22, 2010</b>
Dairy	1,000 milking cows	500 milking cows
Beef Feedlots	3,500 beef cattle	3,500 beef cattle
Other Cattle Facility	7,500 calves, heifers, or other cattle	7,500 calves, heifers, or other cattle
Poultry Facilities		
Chicken	650,000 head	400,000 head
Duck	650,000 head	400,000 head
Turkey	100,000 head	100,000 head
Swine Facility	3,000 head	3,000 head
Horses Facility	3,000 head	3,000 head
Sheep and Goat Facilities	15,000 head of sheep, goats, or any combination of the two	15,000 head of sheep, goats, or any combination of the two
Any livestock facility not listed above	30,000 head	30,000 head

Pursuant to Section 5.1.1, Owners and operators shall obtain a Permit-to-Operate for the facility.

Pursuant to Section 5.1.3, the owner/operator shall submit a facility emission mitigation plan as part of the Permit-to-Operate application or Authority-to-Construct application. The mitigation plan shall contain the following information:

1. The name, business address, and phone number of the owners/operators responsible for the preparation and the implementation of the mitigation measures listed in the mitigation plan.
2. The signature of the owners/operators attesting to the accuracy of the information provided and adherence to implementing the activities specified in the mitigation plan at all times and the date that the application was signed.
3. A list of all mitigation measures chosen to comply with Rule 4570 requirements.

Pursuant to Section 5.1.4, the Permit-to-Operate application or Authority-to-Construct application shall include the following information, which is in addition to the facility emission mitigation plan:

5. The maximum number of animals at the facility in each production stage (facility capacity).
6. Any other information necessary for the District to prepare an emission inventory of all regulated air pollutants emitted from the facility, as determined by the APCO.

Pursuant to Section 5.1.5, the approved mitigation measures from the facility's mitigation plan will be listed on the Permit-to-Operate or Authority-to-Construct as permit conditions.

Pursuant to Section 5.2.2, if a temporary suspension of one or more mitigation measure provided for in Section 5.4 continues beyond the allowed suspension period:

1. The owners/operators shall, within that allowed period, submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the mitigation measure that was suspended; and
2. The owner/operator shall obtain approval of the amended mitigation plan from the APCO and EPA by submittal of an Authority-to-Construct application.

Pursuant to Section 5.3 Mitigation Measure Implementation, owners/operators of any CAF shall implement all VOC emission mitigation measures, as contained in the permit application, on and after 365 days from the date of issuance of either the Authority-to-Construct or the Permit-to-Operate, whichever is sooner.

Pursuant to Section 5.4, an owner/operator may temporarily suspend use of mitigation measure(s) provided all of the following requirements are met:

1. It is determined by a licensed veterinarian, certified nutritionist, CDFA, or USDA that any mitigation measure being suspended is detrimental to animal health or necessary for the animal to molt, and a signed written copy of this determination shall be retained on-site and made available for inspection upon request,
2. The owner/operator notifies the District, within forty-eight (48) hours of the determination that the mitigation measure is being temporarily suspended; the specific health condition requiring the mitigation measure to be suspended; and the duration that the measure must be suspended for animal health reasons,

3. The emission mitigation measure is not suspended for longer than recommended by the licensed veterinarian or certified nutritionist for animal health reasons,
4. If such a situation exists, or is expected to exist for longer than thirty (30) days, the owners/operators shall, within that thirty (30) day period, submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the mitigation measure that was suspended, and
5. The APCO, ARB, and EPA approve the temporary suspension of the mitigation measure for the time period requested by the owner/operator and a signed written copy of this determination shall be retained on-site.

Pursuant to Section 5.5, owners/operators of large CAFs shall comply with the Phase I Mitigation Measures in Section 5.5 until compliance with all applicable Phase II Mitigation Measures in Section 5.6 is demonstrated in accordance with the compliance schedule in Section 8.0.

Pursuant to Section 5.6, owners/operators of CAFs subject to the regulatory threshold in Table 2 of the Rule shall comply with all applicable Phase II Mitigation Measures in accordance with the compliance schedule in Section 8.0.

Pursuant to Section 5.6.1, an owner/operator of a medium or large Dairy CAF shall comply with the Phase II mitigation measures in Table 4.1 of Rule 4570 as outlined in the following table.

<b>Table 4: Dairy CAF Phase II Mitigation Measure Requirements</b>	
A.	Feed: An owner/operator of a dairy CAF shall implement mitigation measures 1, 2, 3, and 4 and at least one (1) additional mitigation measure:
1.	Feed according to National Research Council (NRC) guidelines.
2.	Push feed so that it is within three (3) feet of feedlane fence within two hours of putting out the feed or use a feed trough or other feeding structure designed to maintain feed within reach of the cows.
3.	Begin feeding total mixed rations within two (2) hours of grinding and mixing rations.
4.	Store grain in a weatherproof storage structure or under a weatherproof covering from October through May.
5.	Feed steam-flaked, dry rolled, cracked or ground corn or other steam-flaked, dry rolled, cracked or ground cereal grains.
6.	Remove uneaten wet feed from feed bunks within twenty-four (24) hours after the end of a rain event.

**Table 4: Dairy CAF Phase II Mitigation Measure Requirements**

7.	For total mixed rations that contain at least 30% by weight of silage, feed animals total mixed rations that contain at least 45% moisture.															
8.	Implement an alternative mitigation measure(s), not listed above.															
<b>B. Silage:</b> An owner/operator of a dairy CAF that feeds silage shall implement at least one (1) of the following silage mitigation measures:																
1.	Operators selecting this option must choose mitigation measure 1a plus one (1) from mitigation measures 1b, 1c, 1d plus two (2) from mitigation measures 1e, 1f, 1g: <ol style="list-style-type: none"> <li>a. Cover the surface of silage piles, except for the area where feed is being removed from the pile, with a plastic tarp that is at least five (5) mils thick (0.005 inches), multiple plastic tarps with a cumulative thickness of at least 5 mils (0.005 inches), or an oxygen barrier film covered with a UV resistant material, within seventy-two (72) hours of last delivery of material to the pile.</li> </ol>															
	<p>Choose one of the following:</p> <ol style="list-style-type: none"> <li>b. Build silage piles such that the average bulk density of silage piles is at least 44 lb/cu ft for corn silage and 40 lb/cu ft for other silage types, as measured in accordance with Section 7.11; or</li> <li>c. <i>When creating a silage pile, adjust filling parameters to assure a calculated average bulk density of at least 44 lb/cu ft for corn silage and at least 40 lb/cu ft for other silage types, using a spreadsheet approved by the District; or</i></li> <li>d. Incorporate all of the following practices when creating silage piles:           <ol style="list-style-type: none"> <li>i. Harvest silage crop at ≥65% moisture for corn; and ≥60% moisture for alfalfa/grass and other silage crops; and</li> <li>ii. Incorporate the following parameters for Theoretical Length of Chop (TLC) and roller opening, as applicable, for the crop being harvested.</li> </ol> <table border="1" style="margin-left: 40px; margin-right: 40px;"> <thead> <tr> <th style="text-align: center;">Crop Harvested</th> <th style="text-align: center;">TLC (inches)</th> <th style="text-align: center;">Roller Opening (mm)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Corn with no processing</td> <td style="text-align: center;">≤ 1/2 in</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;">Processed Corn &lt;35% dry matter</td> <td style="text-align: center;">≤ 3/4 in</td> <td style="text-align: center;">1 - 4 mm</td> </tr> <tr> <td style="text-align: center;">Alfalfa/Grass</td> <td style="text-align: center;">≤ 1.0 in</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;">Wheat/Cereal Grains/Other</td> <td style="text-align: center;">≤ 1/2 in</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> </li> <li>iii. Manage silage material delivery such that no more than six (6) inches of material are un-compacted on top of the pile.</li> </ol> <p>Choose two of the following:</p> <ol style="list-style-type: none"> <li>e. Manage exposed silage (select one of the following):           <ol style="list-style-type: none"> <li>i. Manage silage piles such that only one silage pile has an uncovered face and the uncovered face has a total exposed surface area of less than 2,150 square feet; or</li> <li>ii. Manage multiple uncovered silage piles such that the total exposed surface area of all uncovered silage piles is less than 4,300 square feet.</li> </ol> </li> </ol>	Crop Harvested	TLC (inches)	Roller Opening (mm)	Corn with no processing	≤ 1/2 in	N/A	Processed Corn <35% dry matter	≤ 3/4 in	1 - 4 mm	Alfalfa/Grass	≤ 1.0 in	N/A	Wheat/Cereal Grains/Other	≤ 1/2 in	N/A
Crop Harvested	TLC (inches)	Roller Opening (mm)														
Corn with no processing	≤ 1/2 in	N/A														
Processed Corn <35% dry matter	≤ 3/4 in	1 - 4 mm														
Alfalfa/Grass	≤ 1.0 in	N/A														
Wheat/Cereal Grains/Other	≤ 1/2 in	N/A														

<b>Table 4: Dairy CAF Phase II Mitigation Measure Requirements</b>	
	f. Maintain silage working face (select one of the following): i. Use a shaver/facer to remove silage from the silage pile; or ii. Maintain a smooth vertical surface on the working face of the silage pile. g. Silage Additives (select one of the following): i. Inoculate silage with homolactic lactic acid bacteria in accordance with manufacturer recommendations to achieve a concentration of at least 100,000 colony forming units per gram of wet forage; or ii. Apply propionic acid, benzoic acid, sorbic acid, sodium benzoate, or potassium sorbate at a rate specified by the manufacturer to reduce yeast counts when forming silage pile; or iii. Apply other additives at specified rates that have been demonstrated to reduce alcohol concentrations in silage and/or VOC emissions from silage and have been approved by the District and EPA.
2.	Utilize a sealed feed storage system (e.g., Ag-Bag) for silage.
3.	Implement an alternative mitigation measure(s), not listed above.
<b>C. Milking Parlor:</b> An owner/operator of a dairy CAF shall implement at least one (1) of the following mitigation measures in each milking parlor:	
1.	Flush or hose milking parlor immediately prior to, immediately after, or during each milking.
2.	Implement an alternative mitigation measure(s), not listed above.
<b>D. Freestall Barn:</b> An owner/operator of a dairy CAF that houses animals in freestalls shall implement mitigation measures 1 and 2 and at least one (1) additional mitigation measure in each freestall barn:	
1.	Pave feedlanes, where present, for a width of at least eight (8) feet along the corral side of the feedlane fence for milk and dry cows and at least six (6) feet along the corral side of the feedlane for heifers.
2.	Choose one of the following: a. Flush, scrape, or vacuum freestall flush lanes immediately prior to, immediately after, or during each milking; or b. Flush or scrape freestall flush lanes at least three (3) times per day.
3.	Use non-manure-based bedding and non-separated solids based bedding for at least 90% of the bedding material, by weight, for freestalls (e.g. rubber mats, almond shells, sand, or waterbeds).
4.	For a large dairy CAF, remove manure that is not dry from individual cow freestall beds or rake, harrow, scrape, or grade freestall bedding at least once every seven (7) days.  For a medium dairy CAF, remove manure that is not dry from individual cow freestall beds or rake, harrow, scrape, or grade freestall bedding at least once every fourteen (14) days.
5.	Have no animals in exercise pens or corrals at any time.
6.	Implement an alternative mitigation measure(s), not listed above.

<b>Table 4: Dairy CAF Phase II Mitigation Measure Requirements</b>	
E.	<p><b>Corrals:</b>            An owner/operator of a dairy CAF that houses animals in corrals shall implement mitigation measures 1, 2, 3, 4, 5, and 6 and at least one (1) additional mitigation measure in each corral where animals have been housed in the last thirty (30) days:</p>
1.	Pave feedlanes, where present, for a width of at least 8 feet along the corral side of the feedlane fence for milk and dry cows and at least 6 feet along the corral side of the feedlane for heifers.
2.	Choose one of the following: a. Clean manure from corrals at least four (4) times per year with at least sixty (60) days between cleaning; or b. Clean corrals at least once between April and July and at least once between September and December.
3.	Choose one of the following: a. Scrape, vacuum, or flush concrete lanes in corrals at least once every day for mature cows and every seven (7) days for support stock; or b. Clean concrete lanes such that the depth of manure does not exceed twelve (12) inches at any point or time.
4.	Inspect water pipes and troughs and repair leaks at least once every seven (7) days.
5.	Choose one of the following: a. Slope the surface of the corrals at least 3% where the available space for each animal is 400 square feet or less. Slope the surface of the corrals at least 1.5% where the available space for each animal is more than 400 square feet per animal; or b. Maintain corrals to ensure proper drainage preventing water from standing more than forty-eight (48) hours; or c. Harrow, rake, or scrape corrals sufficiently to maintain a dry surface.
6.	If the CAF has shade structures, they must choose one of the following: a. Install shade structures such that they are constructed with a light permeable roofing material; or b. Install all shade structures uphill of any slope in the corral; or c. Clean manure from under corral shades at least once every fourteen (14) days, when weather permits access into the corral; or d. Install shade structure so that the structure has a North/South orientation.
7.	Manage corrals such that the manure depth in the corral does not exceed twelve (12) inches at any time or point, except for in-corral mounding. Manure depth may exceed 12 inches when corrals become inaccessible due to rain events. The facility must resume management of the manure depth of 12 inches or lower immediately upon the corral becoming accessible.
8.	Knockdown fence line manure build-up prior to it exceeding a height of twelve (12) inches at any time or point. Manure depth may exceed 12 inches when corrals become inaccessible due to rain events. The facility must resume management of the manure depth of 12 inches or lower immediately upon the corral becoming accessible.
9.	Choose one of the following: a. Use lime or a similar absorbent material in the corrals according to the manufacturer's recommendation; or b. Apply thymol to the feedlot soil in accordance with the manufacturer's recommendation.
10.	Implement an alternative mitigation measure(s), not listed above.



<b>Table 4: Dairy CAF Phase II Mitigation Measure Requirements</b>	
<b>F.</b>	<b>Solid Manure/Separated Solids:</b> Owners/operators of a large dairy CAF that handle or store solid manure or separated solids outside the animal housing shall implement at least one (1) of the following mitigation measures:
1.	Within seventy-two (72) hours of removal from housing, either: a. Remove dry manure from the facility; or b. Cover dry manure outside the housing with a weatherproof covering from October through May, except for times when wind events remove the covering, not to exceed twenty-four (24) hours per event.
2.	Within seventy-two (72) hours of removal from the drying process, either: a. Remove separated solids from the facility; or b. Cover separated solids outside the housing with a weatherproof covering from October through May, except for times when wind events remove the covering, not to exceed twenty-four (24) hours per event.
3.	Implement an alternative mitigation measure(s), not listed above.
<b>G.</b>	<b>Liquid Manure:</b> An owner/operator of a dairy CAF that handles manure in a liquid form shall implement at least one (1) of the following mitigation measures:
1.	Use a phototropic lagoon.
2.	Use an anaerobic treatment lagoon designed in accordance with NRCS Guideline No. 359.
3.	Remove solids from the waste system with a solid separator system, prior to the waste entering the lagoon.
4.	Maintain lagoon pH between 6.5 and 7.5.
5.	Implement an alternative mitigation measure(s), not listed above.
<b>H.</b>	<b>Land Application:</b> An owner/operator of a dairy CAF who land applies manure to crop land on the facility shall implement the following applicable mitigation measures:
1.	If the CAF applies solid manure, choose one of the following: a. Incorporate all solid manure within seventy-two (72) hours of land application; or b. Only apply solid manure that has been treated with an anaerobic treatment lagoon, aerobic lagoon, or digester system; or c. Apply no solid manure with a moisture content of more than 50%; or d. Implement an alternative mitigation measure(s), not listed above.
2.	If the CAF applies liquid manure, choose one of the following: a. Only apply liquid manure that has been treated with an anaerobic treatment lagoon, aerobic lagoon, or digester system; or b. Allow liquid manure to stand in the fields for no more than twenty-four (24) hours after irrigation; or c. Apply liquid/slurry manure via injection with drag hose or similar apparatus; or d. Implement an alternative mitigation measure(s), not listed above.

Pursuant to Section 6.1, when implementing Phase II mitigation measures owners/operators using a mitigation measure for a lagoon in their approved emission mitigation plan shall monitor the lagoon for the

required parameter(s), as determined by the APCO and EPA, at least once every calendar quarter, with at least 30 days between monitoring tests.

Pursuant to Section 7.2, owners/operators of CAFs subject to Section 5.0 requirements shall maintain the following records.

1. Copies of all facility permits.
2. Records of the number of animals of each species and production group at the facility on a quarterly basis. Examples of records that may be used include, but are not limited to, Dairy Herd Improvement Association records and animal inventories done for financial purposes.
3. Records sufficient to demonstrate compliance with all applicable mitigation measures.

Pursuant to Section 7.3, owners/operators of CAFs subject to Section 5.0 requirements shall maintain records for feed and silage mitigation measures.

Pursuant to Section 7.4, owners/operators of CAFs subject to Section 5.0 requirements shall maintain records verifying that the milking parlor was flushed or hosed immediately prior to, immediately after, or during each milking.

Pursuant to Section 7.5, owners/operators of CAFs subject to Section 5.0 requirements shall maintain records for Freestall, Corral, and Animal Housing mitigation measures.

Pursuant to Section 7.6, owners/operators of CAFs subject to Section 5.0 requirements shall maintain records for Solid Manure/Separated Solids mitigation measures.

Pursuant to Section 7.7, owners/operators of CAFs subject to Section 5.0 requirements shall maintain records for Liquid Manure mitigation measures.

Pursuant to Section 7.8, owners/operators of CAFs subject to Section 5.0 requirements shall maintain records of mitigation measures for land application of manure.

Pursuant to Section 7.9, owners/operators shall keep and maintain the required in Sections 7.1 through 7.8, as applicable, for a minimum of five years and the records shall be made available to the APCO and EPA upon request.

Section 7.10 specifies the type and frequency of source testing of VOC control devices and monitoring/testing of lagoon parameters required to demonstrate compliance.

Section 7.11 specifies the type and frequency of source testing of VOC control devices and monitoring/testing of lagoon parameters required to demonstrate compliance and requires owners/operators to test any other parameters determined necessary by the APCO, ARB, and EPA to demonstrate compliance with the rule requirements. Section 7.11 also allows an operator to use an alternative test method if written approval of the APCO and EPA has been obtained.

Section 8.0, specifies the schedule by which owners/operators of CAFs must comply with the rule, requires compliance with the Phase II requirements of the Rule within 365 days from the Authority-to-Construct or Permit-to-Operate issuance date, and requires continued compliance with the Phase I requirements in Section 5.5 until demonstrating full compliance with Phase II requirements in Section 5.6.

- a. *S-4692-1-3: 8,880 COW MILKING OPERATION WITH FOUR DOUBLE 35 PARALLEL (280 STALLS) MILKING PARLOR*
  - Conditions 1-4 of the requirements for this permit unit assure compliance with this rule.
- b. *S-4692-2-3: COW HOUSING - 8,880 MILK COWS NOT TO EXCEED A COMBINED TOTAL OF 10,105 MATURE COWS (MILK AND DRY COWS); 6,915 TOTAL SUPPORT STOCK (HEIFERS AND BULLS); AND 11 FREESTALLS WITH VACUUM SYSTEM*
  - Conditions 1-19 of the requirements for this permit unit assure compliance with this rule.
- c. *S-4692-3-3: LIQUID MANURE HANDLING SYSTEM CONSISTING OF 17 SETTLING BASINS AND 1 TRANSFER PIT; 4 STORAGE PONDS; MANURE IS LAND APPLIED THROUGH FLOOD IRRIGATION, LIQUID INJECTION, SPRINKLER IRRIGATION, AND FURROW IRRIGATION*
  - Conditions 1-5 of the requirements for this permit unit assure compliance with this rule.
- d. *S-4692-4-3: SOLID MANURE HANDLING CONSISTING OF MANURE STOCK PILES; AERATED STATIC PILE COMPOSTING;*

**SOLID MANURE APPLICATION TO LAND AND/OR HAULED OFFSITE**

- Conditions 1-7 of the requirements for this permit unit assure compliance with this rule.
- e. **S-4692-26-2: FEED STORAGE AND HANDLING CONSISTING OF COMMODITY BARNs AND SILAGE PILES**
  - Conditions 1-28 of the requirements for this permit unit assure compliance with this rule.

**17. 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, test methodology, and storage requirements.

a. **S-4692-0-1: Facility-Wide Requirements**

- Conditions 25-27 of the requirements of the facility-wide permit assure compliance with this rule.

**18. District Rule 4621 - Gasoline Transfer into Stationary Storage Containers, Delivery Vessels, and Bulk Plants**

This rule applies to storage containers located at bulk plants with capacities greater than 250 gallons and less than 19,800 gallons; to other stationary storage containers with capacities greater than 250 gallons; and to those storage containers that are not subject to the control requirements of Rule 4623 (Storage of Organic Liquids) Section 5.0. The rule also applies to gasoline delivery vessels.

This rule requires that gasoline storage tanks be equipped with a permanent submerged fill pipe and an ARB-certified Phase I vapor recovery system, unless specifically exempted from the requirements of the rule per Section 4.0. If applicable, the rule further requires that the vapor recovery system be maintained and operated according to manufacturer's specifications.

Section 4.0 states that the requirements of Sections 5.2.1 and 5.2.2 do not apply to the operations exempted under Sections 4.1 through 4.4.

Section 4.1 exempts storage containers with capacities less than or equal to 550 gallons and are used primarily for fueling implements of husbandry as defined in Division 16 (Section 36000 et seq) of the California Vehicle Code, if such container is equipped with a permanent submerged fill pipe.

*The facility's gasoline storage tank is not greater than 550 gallons, is equipped with a submerged fill pipe, and it is used primarily for fueling implements of husbandry.*

Section 5.4.1 states "all aboveground storage containers shall be constructed and maintained in a leak-free condition." Therefore, the following permit condition will be placed on the ATC to ensure compliance with this requirement:

a. *S-4692-25-1: AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 500 GALLON PHASE I EXEMPT ABOVEGROUND STORAGE TANK AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE (IMPLEMENTS OF HUSBANDRY)*

- Conditions 1-4 of the requirements for this permit unit assure compliance with this rule.

## **19. District Rule 4622 - Gasoline Transfer into Motor Vehicle Fuel Tanks**

The purpose of this rule is to limit emissions of gasoline vapors from the transfer of gasoline into motor vehicle fuel tanks.

This rule applies to any gasoline storage and dispensing facility at which gasoline is transferred into motor vehicle fuel tanks except as provided in Section 4.0 (Exemptions).

Section 4.2 stipulates that the requirements of this rule shall not apply to gasoline storage containers that are exempt pursuant to Section 4.0 of Rule 4621 (Gasoline Transfer into Stationary Storage Containers, Delivery Vessels, and Bulk Plants).

As stated above, Section 4.1 of District Rule 4621 exempts the gasoline dispensing operation at this agricultural production facility from certain requirements because it is primarily used to fuel instruments of husbandry and is equipped with a submerged fill pipe; therefore it is exempt from the requirements of District Rule 4622.

## 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.

Pursuant to Section 4.1, the provisions of this rule do not apply to engines in agricultural operations in the growing of crops or raising of fowl or animals. The IC engines at this agricultural production facility are used for growing crops and/or raising of fowl or animals and are therefore exempt from this rule.

a. *S-4692-5-1 through '-24-1: (Diesel Engines)*

- Condition 2 of the requirements for these permit units assures compliance with this rule.

b. *S-4692-27-1 through '-32-1: (Diesel Engines)*

- Condition 1 of the requirements for this permit unit assures compliance with this rule.

## 21. District Rule 4702 - Internal Combustion Engines

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.

This rule applies to any internal combustion engine with a rated brake horsepower greater than 25 horsepower.

- *Internal combustion engines at this facility consist of one (1) emergency stand-by engine powering an electrical generator (S-4692-5-1) and thirteen (13) stationary agricultural operation (AO) Tier 3 compression ignition engines powering irrigation well pumps (S-4692-10-1, '-19-1 through '-24-1 and '-27-1 through '-32-1). All the engines are rated in excess of 50 horsepower.*

Section 4.2 exempts emergency stand-by engine from the requirements of the rule with the exception of the requirements of Sections 5.9 and 6.2.3 provided that the engine is operated with a non-resettable elapsed time meter.

- *This exemption is applicable to permit unit S-4692-5-1.*

Section 5.2.4 requires that the owner of a certified compression-ignited engine rated > 50 hp comply with the emission limits/standards of Table 4 of the rule:

Engine Type	Emission Limit/Standard	Compliance Date
<b>1. Non-Certified Compression-Ignited Engine</b>		
a. Greater than 50 bhp but not more than 500 bhp	EPA Tier 3 or Tier 4	1/1/2010
b. Greater than 500 bhp but not more than 750 bhp and less than 1000 annual operating hours	EPA Tier 3	1/1/2010
c. Greater than 750 bhp and less than 1000 annual operating hours	EPA Tier 4	7/1/2011
d. Greater than 500 bhp and greater than or equal to 1000 annual operating hours	80 ppm NOx, 2,000 ppm CO, 750 ppm VOC	1/1/2008 or, if owner has an agreement to electrify, comply by 1/1/2010
<b>2. Certified Compression-Ignited Engine</b>		
a. EPA Certified Tier 1 or Tier 2 Engine	EPA Tier 4	1/1/2015 or 12 years after installation date, whichever is later
b. EPA Certified Tier 3 or Tier 4 Engine	Meet Certified Compression-Ignited Engine Standard in effect at time of installation	At time of installation

- *All thirteen (13) stationary AO Tier 3 compression ignition engines powering irrigation well pumps (S-4692-10-1, '-19-1 through '-24-1 and '-27-1 through '-32-1) fall under the requirements of line 2b of Table 4. Since an EPA certified Tier 3 was the compression-ignited engine standard in effect at the time of installation of all these engines, all thirteen engines are in compliance with Table 4.*

Monitoring requirements for all engines at this facility are stated in Section 5.9.

Section 5.9.2 requires the owner to properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.

Section 5.9.3 requires the owner to monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.

Section 5.9.4 requires each engine to install and operate a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and is allowed by Permit-to-Operate or Stationary Equipment Registration condition. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

Section 6.2.1 requires that except for engines subject to Section 4.0, the owner of an engine subject to the requirements of Section 5.2 shall maintain an engine operating log to demonstrate compliance with this rule. This information shall be retained for a period of at least five years, shall be readily available, and be made available to the APCO upon request.

Section 6.2.2 requires that the data collected pursuant to the requirements of Section 5.9 shall be maintained for at least five years, shall be readily available, and made available to the APCO upon request.

Section 6.2.3 requires that an operator claiming an exemption under Section 4.2 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.

Section 6.3 (Compliance Testing) does not have any requirements applicable to certified Tier 3 compression-ignited engines.

Section 6.5 (I&M Plan) does not have any requirements applicable to certified Tier 3 compression-ignited engines.

Since all engines at this facility are either emergency standby engines or certified Tier 3 engine in compliance with the requirements of Rule 4702, Sections 7.0, 8.0 and 9.0 of Rule 4702 are not applicable.

a. *S-4692-5-1: 1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR*

- Conditions 4-8 and 16-18 of the requirements for this permit unit assure compliance with this rule.



- b. *S-4692-10-1: 375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)*
- Conditions 3-4 and 7-10 of the requirements for this permit unit assure compliance with this rule.
- c. *S-4692-19-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- d. *S-4692-20-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- e. *S-4692-21-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- f. *S-4692-22-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- g. *S-4692-23-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.

- h. *S-4692-24-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- i. *S-4692-27-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)*
- Conditions 3, 5, 8, 10-11 and 13 of the requirements for this permit unit assure compliance with this rule.
- j. *S-4692-28-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- k. *S-4692-29-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- l. *S-4692-30-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.
- m. *S-4692-31-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)*
- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.

n. S-4692-32-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)

- Conditions 3, 5, 8-10 and 12 of the requirements for this permit unit assure compliance with this rule.

## 22. District Rule 4801 - Sulfur Compounds

District Rule 4801 has been submitted to the EPA to replace Kern County Rule 407 which is contained in the SIP. District Rule 4801 is as stringent as Kern County Rule 407, as shown on Table 7 below.

REQUIREMENTS	District Rule 4801	Kern County Rule 407
A person shall not discharge into the atmosphere sulfur compounds exceeding in concentration at the point of discharge 0.2 percent by volume calculated as sulfur dioxide on a dry basis averaged over 15 consecutive minutes.	✓	✓
EPA Method 8 and ARB Method 1-100 shall be used to determine such emissions.	✓	

This rule limits the emission of sulfur compounds to 0.2% by volume (2,000 ppmv) calculated as SO<sub>2</sub>, on a dry basis averaged over 15 minutes. The engines at this facility will demonstrate compliance with this emission limit by using certified fuels.

The following equation demonstrates that engines fired on diesel fuel with a maximum sulfur content of 0.0015% will not exceed the limits of this rule.

$$0.0015 \% S \times \frac{7.05 \text{ lb}}{\text{gal}} \times \frac{64 \text{ lb} \cdot \text{SO}_2}{32 \cdot \text{lb} \cdot \text{S}} \times \frac{10^6 \text{ Btu}}{9,051 \text{ dscf}} \times \frac{1 \text{ gal}}{137,000 \text{ Btu}} \times \frac{\text{lb} \cdot \text{mol}}{64 \text{ lb} \cdot \text{SO}_2} \times \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ\text{R}} \times \frac{519.67^\circ\text{R}}{14.7 \text{ psi}} = 1.0 \text{ ppmv}$$

Where:

$$R \text{ (universal gas constant)} = \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ\text{R}}$$

137,000 Btu/gal = Heat content of diesel (AP-42 9/85, Appendix A-5)

9,051 dscf/10<sup>6</sup> Btu - Diesel F Factor @ 60 °F (40 CFR 60, Appendix A-7, Table 19-2 - 9,190 dscf/10<sup>6</sup> Btu @ 68 °F)

32 lb-S/lb-mol = Molecular weight of sulfur

Volume SO<sub>2</sub> = nRT/P

$n = \text{moles SO}_2$   
 $T (\text{standard temperature}) = 60^\circ \text{F or } 519.67^\circ \text{R}$   
 $7.05 \text{ lb/gal} = \text{density of diesel (AP-42 9/85, Appendix A-6)}$

Since 1.0 ppmv is < 2000 ppmv and all of the engines will be fired on ARB diesel fuel with a maximum sulfur content of 0.0015%, compliance with District Rule 4801 is expected.

- a. *S-4692-5-1: 1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR*
  - Condition 3 of the requirements for this permit unit assures compliance with this rule.
- b. *S-4692-10-1: 375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)*
  - Condition 6 of the requirements for this permit unit assures compliance with this rule.
- c. *S-4692-19-1 through '-24-1: (Diesel Engines)*
  - Condition 7 of the requirements for these permit units assures compliance with this rule.
- d. *S-4692-27-1 through '-32-1: (Diesel Engines)*
  - Condition 7 of the requirements for these permit units assures compliance with this rule.

### **23. District Rule 8011 - General Requirements**

The purpose of Regulation VIII (Fugitive PM<sub>10</sub> Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM<sub>10</sub>) by requiring actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions. The Rules contained in this Regulation have been developed pursuant to United States Environmental Protection Agency guidance for Serious PM<sub>10</sub> Nonattainment Areas. The rules are applicable to specified anthropogenic fugitive dust sources. Fugitive dust contains PM<sub>10</sub> and particles larger than PM<sub>10</sub>. Controlling fugitive dust emissions when visible emissions are detected will not prevent all PM<sub>10</sub> emissions, but will substantially reduce PM<sub>10</sub> emissions.

The provisions of this rule are applicable to specified outdoor fugitive dust sources. The definitions, exemptions, requirements, administrative requirements, recordkeeping requirements, and test methods set forth in this rule are applicable to all Rules under Regulation VIII (Fugitive PM<sub>10</sub> Prohibitions) of the Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District.

a. *S-4692-0-1: Facility-Wide Requirements*

- Conditions 31-36 of the requirements of the facility-wide permit assure compliance with this rule.

**24. District Rule 8021 - Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities**

The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities.

This rule applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads to and from the site. This rule also applies to the construction of new landfill disposal sites or modification to existing landfill disposal sites prior to commencement of landfilling activities.

Section 5.0 requires that no person shall perform any construction, demolition, excavation, extraction, or other earthmoving activities unless the appropriate requirements in sections 5.1 and 5.2 are sufficiently implemented to limit Visible Dust Emissions (VDE) to 20% opacity or less. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

a. *S-4692-0-1: Facility-Wide Requirements*

- Condition 31 of the requirements of the facility-wide permit assures compliance with this rule.

## **25. District Rule 8031 - Bulk Materials**

The purpose of this rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials. This rule applies to the outdoor handling, storage, and transport of any bulk material.

Section 5.0 requires that no person shall perform any outdoor handling, storage, and transport of bulk materials unless the appropriate requirements in Table 8031-1 of this rule are sufficiently implemented to limit Visible Dust Emissions (VDE) to 20% opacity or less or to comply with the conditions for a stabilized surface as defined in Rule 8011. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Section 4.5 exempts agricultural sources subject to, or specifically exempt from, the requirements of Rule 8081 (Agricultural Sources) from the requirements of this rule. Section 3.1 of District Rule 8011 defines an agricultural source as "any activity or portion of land associated with the commercial growing of crops or the raising of fowl or animals." Since this facility is an agricultural source subject to the requirements of Rule 8081 (Agricultural Sources), it is exempt from the requirements of this rule.

## **26. District Rule 8041 - Carryout and Trackout**

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout. This rule applies to all sites that are subject to Rules 8021 (Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities), 8031 (Bulk Materials), and 8071 (Unpaved Vehicle and Equipment Traffic Areas) where carryout or trackout has occurred or may occur.

Section 5.0 requires that the owner or operator shall sufficiently prevent or cleanup carryout and trackout as specified in sections 5.1 through 5.8. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner or operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

Section 4.1 exempts carryout and trackout caused by an Agricultural Source from the requirements of this rule. Section 3.1 of District Rule 8011 defines an agricultural source as "any activity or portion of land associated with the commercial growing of crops or the raising of fowl or animals." Since this facility is an agricultural source, carryout and trackout from this facility is exempt from the requirements of this rule.

## **27. District Rule 8051 - Open Areas**

The purpose of this rule is to limit fugitive dust emissions from open areas. This rule applies to any open area having 3.0 acres or more of disturbed surface area that has remained undeveloped, unoccupied, unused, or vacant for more than seven days.

Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner or operator shall implement one or more of the control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit Visible Dust Emissions (VDE) to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

### *a. S-4692-0-1: Facility-Wide Requirements*

- Condition 34 of the requirements of the facility-wide permit assures compliance with this rule.

## **28. District Rule 8061 - Paved and Unpaved Roads**

The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria. This rule applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.

Section 4.3 exempts agricultural sources subject to, or specifically exempt from, the requirements of Rule 8081 (Agricultural Sources) from the requirements of this rule. Section 3.1 of District Rule 8011 defines an agricultural source as "any activity or portion of land associated with the commercial growing of crops or the raising of fowl or animals." Since this facility is an agricultural source subject to the requirements of Rule 8081 (Agricultural Sources), it is exempt from the requirements of this rule.

## **29. District Rule 8071 - Unpaved Vehicle/Equipment Traffic Area**

The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas by implementing control measures and design criteria. This rule applies to any unpaved vehicle/equipment traffic area of 1.0 acre or larger.

Section 4.2 exempts agricultural sources subject to, or specifically exempt from, the requirements of Rule 8081 (Agricultural Sources) from the requirements of this rule. Section 3.1 of District Rule 8011 defines an agricultural source as "any activity or portion of land associated with the

commercial growing of crops or the raising of fowl or animals.” Since this facility is an agricultural source subject to the requirements of Rule 8081 (Agricultural Sources), it is exempt from the requirements of this rule.

### **30. District Rule 8081 - Agricultural Sources**

The purpose of this rule is to limit fugitive dust emissions from agricultural sources. This rule applies to off-field agricultural sources.

Section 5.0 requires that an owner or operator shall comply with Sections 5.1 through 5.3 of Rule 8081 and sufficiently implement at least one of the control measures indicated in each section of Table 8081-1 to limit Visible Dust Emissions (VDE) to 20% opacity or to comply with the conditions for a stabilized surface as defined in Rule 8011. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

#### *a. S-4692-0-1: Facility-Wide Requirements*

- Condition 37 of the requirements of the facility-wide permit assures compliance with this rule.

### **31. 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 CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are manufactured after April 1, 2006, and are not fire pump engines:

#### *a. S-4692-5-1: 1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR*

- This engine was installed prior to July 11, 2005 and manufactured prior to July 1, 2006. Therefore this engine is not subject to this subpart.

#### *b. S-4692-10-1: 375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)*

- This engine was installed prior to July 11, 2005 and manufactured prior to July 1, 2006. Therefore this engine is not subject to this subpart.



60.4204(b) Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.

§60.4201(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt (KW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power.

§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: (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.

*Permit units S-4692-10, 19 through -24 and -27 through -32 are 2007 or later model year certified Tier 3 diesel engines rated less than 3000 hp and have a displacement of less than 10 liters per cylinder:*

c. *S-4692-10-1: 375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)*

- *Although this engine was installed prior to July 11, 2005 and manufactured prior to July 1, 2006 and is thus not subject to this part, this permit unit complies with the requirements of subpart IIII in lieu of meeting the requirements of 40 CFR 63, Subpart ZZZZ as discussed in that section of this evaluation. Conditions 5-8 of the requirements for these permit units assure compliance with this rule.*

d. S-4692-19-1 through '-24-1: (Diesel Engines)

- Conditions 5-8 of the requirements for these permit units assure compliance with this rule.

e. S-4692-27-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)

- Conditions 6-9 of the requirements for this permit unit assures compliance with this rule.

f. S-4692-28-1 through '-32-1: (Diesel Engines)

- Condition 5-8 of the requirements for these permit units assures compliance with this rule.

**32. 40 CFR Parts 61.145 and 61.150 (40 CFR 61 Subpart M) - National Emissions Standards for Asbestos (District Rule 4002)**

These 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-4692-0-1: Facility-Wide Requirements

- Condition 37 of the requirements of the facility-wide permit assures compliance with this rule.

**33. 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.

§63.6585 states an owner or operator is subject to this subpart if it owns or operates a stationary RICE at a major or area source of HAP emissions.

§63.6585(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year.

§63.6585(c) An area source of HAP emissions is a source that is not a major source.

- *This facility is an area source of HAP emissions since it is not a major source of HAP per §63.6585(b).*

§63.6590(a)(1)(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

§63.6590(c) Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

(1) A new or reconstructed stationary RICE located at an area source;

a. *S-4692-19-1 through '-24-1 and '-27-1 through '-32-1: (Diesel Engines)*

- *These units are new RICE which meet the requirements of 40 CFR part 60 subpart IIII. Therefore no further requirements apply under this rule. Conditions 5-8 of the requirements of these permits assures compliance with this subpart.*

§63.6595(a)(1) An existing stationary CI RICE located at an area source of HAP emissions must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.

§63.6603(a) An existing stationary RICE located at an area source of HAP emissions must comply with the applicable requirements in Table 2d to this subpart. However, per §63.6603 (e), an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 3 emission standards in Table 1 of 40 CFR 89.112 may comply with the requirements under this part by meeting the requirements for Tier 3 engines in 40 CFR part 60 subpart IIII instead of the emission limitations and other requirements that would otherwise apply under this part.

b. *S-4692-10-1: 375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)*

- *This unit is an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions and is a certified Tier 3 engine complying with requirements for Tier 3 engines in 40 CFR part 60 subpart IIII in lieu of the emission limitations and other requirements that would otherwise apply under this subpart. Therefore no further requirements apply under this subpart. Conditions 5-8 of the requirements of this permit assures compliance with this subpart.*

**Table 2d to Subpart ZZZZ of Part 63— Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions**

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each	You must meet the following requirement, except during periods of startup	During periods of startup you must
4. Emergency stationary CI RICE	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; <sup>1</sup> b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

§63.6625(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

§63.6640(f)(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the

tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.

§63.6655(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

- c. *S-4692-5-1: 1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR*
- *Conditions 5, 6, 9-15 and 18 of the requirements for this permit unit assure compliance with this rule.*

#### **34. 40 CFR Parts 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.
- a. *S-4692-1-3: 8,880 COW MILKING OPERATION WITH FOUR DOUBLE 35 PARALLEL (280 STALLS) MILKING PARLOR*
  - b. *S-4692-2-3: COW HOUSING - 8,880 MILK COWS NOT TO EXCEED A COMBINED TOTAL OF 10,105 MATURE COWS (MILK AND DRY COWS); 6,915 TOTAL SUPPORT STOCK (HEIFERS AND BULLS); AND 11 FREESTALLS WITH VACUUM SYSTEM*
  - c. *S-4692-3-3: LIQUID MANURE HANDLING SYSTEM CONSISTING OF 17 SETTLING BASINS AND 1 TRANSFER PIT; 4 STORAGE PONDS; MANURE IS LAND APPLIED THROUGH FLOOD IRRIGATION, LIQUID INJECTION, SPRINKLER IRRIGATION, AND FURROW IRRIGATION*

- d. S-4692-4-3: SOLID MANURE HANDLING CONSISTING OF MANURE STOCK PILES; AERATED STATIC PILE COMPOSTING; SOLID MANURE APPLICATION TO LAND AND/OR HAULED OFFSITE
- e. S-4692-25-1: AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1000 GALLON PHASE I EXEMPT ABOVEGROUND STORAGE TANK AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE (IMPLEMENTS OF HUSBANDRY)
- f. S-4692-26-2: FEED STORAGE AND HANDLING CONSISTING OF COMMODITY BARNs AND SILAGE PILES
  - The requirements for these permit units do not list any emissions limits and the units are not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, CAM is not required.
- g. S-4692-5-1: 1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
- h. S-4692-10-1: 375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)
- i. S-4692-19-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)
- j. S-4692-20-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)
- k. S-4692-21-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)
- l. S-4692-22-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)
- m. S-4692-23-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)

- n. S-4692-24-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)
  - o. S-4692-27-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)
  - p. S-4692-28-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)
  - q. S-4692-29-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)
  - r. S-4692-30-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)
  - s. S-4692-31-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)
  - t. S-4692-32-1: 385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)
- *The requirements for these permit units include emission limits for NOx, CO, VOC and PM10; however, the units are not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, CAM is not required.*

### **35. 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-4692-0-1: Facility-Wide Requirements*

- Conditions 29-30 of the requirements of the facility-wide permit assure compliance with this rule.

**X. PERMIT CONDITIONS**

See draft operating permit beginning on the following page.



# San Joaquin Valley Air Pollution Control District

FACILITY: S-4692-0-1

EXPIRATION DATE: 12/31/2012

## FACILITY-WIDE REQUIREMENTS

1. {3658} This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]
2. S-4692 and S-4693 are part of the same stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
3. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
4. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
5. {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
6. {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
7. {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
8. {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
9. {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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: BELLANAVE CORPORATION  
Location: 14461 HIGHWAY 119, BAKERSFIELD, CA 93311  
S-4692-0-1 : Apr 8 2013 9:14AM -- ROBERTSD

10. {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
11. {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
12. {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
13. {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
14. {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
15. {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
16. {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
17. {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
18. {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
19. {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
20. {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
21. {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
22. {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

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

23. {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
24. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
25. {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
26. {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
27. {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
28. {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
29. {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
30. {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
31. {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
32. {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
33. {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
34. {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
35. {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

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

36. {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
37. The owner or operator shall comply with Sections 5.1 through 5.3 of District Rule 8081 and shall sufficiently implement at least one of the control measures indicated in each section of Table 8081-1 to limit Visible Dust Emissions to 20% opacity or to comply with the conditions for a stabilized surface as defined in Rule 8011, unless specifically exempted under Section 4.0 of Rule 8081 (9/16/2004) or Rule 8011 (8/19/2004). The owner or operator shall also comply with all applicable requirements of Regulation VIII unless specifically exempted by the applicable rules. [District Rule 8081 and 8011] Federally Enforceable Through Title V Permit
38. {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
39. {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
40. {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
41. {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
42. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
43. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

44. The owner or operator shall implement the applicable conservation management practices (CMP) selected in the approved CMP plan pursuant Section 6.2 of District Rule 4550 (8/19/04). The owner or operator shall submit a CMP application to the APCO prepared pursuant to Section 6.1 of District Rule 4550 (8/19/04) within 90 days for an agricultural operation site or an agricultural parcel that is acquired or becomes subject to District Rule 4550 and within 60 days of any operational, administrative, or other modification that necessitates revision of the CMP Plan. The owner or operator shall maintain a copy of each CMP application, CMP plan, and any supporting information necessary to confirm the implementation of the CMPs for a minimum of five (5) years. [District Rule 4550] Federally Enforceable Through Title V Permit
45. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
46. On October XX, XXXX, 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.

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-1-3

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

8,880 COW MILKING OPERATION WITH FOUR DOUBLE 35 PARALLEL (280 STALLS) MILKING PARLOR

## PERMIT UNIT REQUIREMENTS

---

1. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
2. Permittee shall flush or hose milk parlor immediately prior to, immediately after, or during each milking. [District Rule 4570] Federally Enforceable Through Title V Permit
3. Permittee shall provide verification that milk parlors are flushed or hosed prior to, immediately after, or during each milking. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570] 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-4692-2-3

EXPIRATION DATE: 12/31/2012

## EQUIPMENT DESCRIPTION:

COW HOUSING - 8,880 MILK COWS NOT TO EXCEED A COMBINED TOTAL OF 10,105 MATURE COWS (MILK AND DRY COWS); 6,915 TOTAL SUPPORT STOCK (HEIFERS AND BULLS); AND 11 FREESTALLS WITH VACUUM SYSTEM

## PERMIT UNIT REQUIREMENTS

1. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
2. Permittee shall pave feedlanes, where present, for a width of at least 8 feet along the corral side of the feedlane fence for milk and dry cows and at least 6 feet along the corral side of the feedlane for heifers. [District Rule 4570] Federally Enforceable Through Title V Permit
3. Permittee shall flush, scrape or vacuum freestall lanes immediately prior to, immediately after or during each milking. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records sufficient to demonstrate that freestall lanes are flushed, scraped or vacuumed immediately prior to, immediately after or during each milking. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall remove manure that is not dry from individual cow freestall beds or rake, harrow, scrape, or grade freestall bedding at least once every seven (7) days. [District Rule 4570] Federally Enforceable Through Title V Permit
6. Permittee shall record the date that manure that is not dry is removed from individual cow freestall beds or raked, harrowed, scraped, or freestall bedding is graded at least once every seven (7) days. [District Rule 4570] Federally Enforceable Through Title V Permit
7. Permittee shall inspect water pipes and troughs and repair leaks at least once every seven (7) days. [District Rule 4570] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records demonstrating that water pipes and troughs are inspected and leaks are repaired at least once every seven (7) days. [District Rule 4570] Federally Enforceable Through Title V Permit
9. Permittee shall clean manure from corrals at least four (4) times per year with at least sixty (60) days between each cleaning, or permittee shall clean corrals at least once between April and July and at least once between September and December. [District Rule 4570] Federally Enforceable Through Title V Permit
10. Permittee shall demonstrate that manure from corrals are cleaned at least four (4) times per year with at least sixty (60) days between each cleaning or demonstrate that corrals are cleaned at least once between April and July and at least once between September and December. [District Rule 4570] 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. Permittee shall implement at least one of the following corral mitigation measures: 1) slope the surface of the corrals at least 3% where the available space for each animal is 400 square feet or less and shall slope the surface of the corrals at least 1.5% where the available space for each animal is more than 400 square feet per animal; 2) maintain corrals to ensure proper drainage preventing water from standing more than forty-eight hours; or 3) harrow, rake, or scrape pens sufficiently to maintain a dry surface except during periods of rainy weather. [District Rule 4570] Federally Enforceable Through Title V Permit
12. Permittee shall either 1) maintain sufficient records to demonstrate that corrals are maintained to ensure proper drainage preventing water from standing for more than forty-eight hours or 2) maintain records of dates pens are groomed (i.e., harrowed, raked, or scraped, etc.). [District Rule 4570] Federally Enforceable Through Title V Permit
13. Permittee shall scrape, vacuum or flush concrete lanes in corrals at least once every day for mature cows and every seven (7) days for support stock. [District Rule 4570] Federally Enforceable Through Title V Permit
14. Permittee shall maintain records demonstrating that concrete lanes in corrals are scraped, vacuumed, or flushed at least once every day for mature cows and at least once every seven (7) days for support stock. [District Rule 4570] Federally Enforceable Through Title V Permit
15. Shade structures shall be installed in any of the following ways: 1) constructed with a light permeable roofing material; 2) uphill of any slope in the corral; 3) installed so that the structure has a North/South orientation. OR Permittee shall clean manure from under corral shades at least once every fourteen (14) days, when weather permits access into the corral. [District Rule 4570] Federally Enforceable Through Title V Permit
16. Permittee shall manage corrals such that the manure depth in the corral does not exceed twelve (12) inches at any time or point, except for in-corral mounding. Manure depth may exceed 12 inches when corrals become inaccessible due to rain events. However, permittee must resume management of the manure depth of 12 inches or lower immediately upon the corral becoming accessible. [District Rule 4570] Federally Enforceable Through Title V Permit
17. Permittee shall measure and document the depth of manure in the corrals at least once every ninety (90) days. [District Rule 4570] Federally Enforceable Through Title V Permit
18. Permittee shall maintain a record of the number of animals of each species and production group at the facility and shall maintain quarterly records of any changes to this information. [District Rule 4570] Federally Enforceable Through Title V Permit
19. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570] Federally Enforceable Through Title V Permit

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

DRAFT



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-3-3

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

LIQUID MANURE HANDLING SYSTEM CONSISTING OF 17 SETTLING BASINS AND 1 TRANSFER PIT; 4 STORAGE PONDS; MANURE IS LAND APPLIED THROUGH FLOOD IRRIGATION, LIQUID INJECTION, SPRINKLER IRRIGATION, AND FURROW IRRIGATION

## PERMIT UNIT REQUIREMENTS

---

1. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
2. Permittee shall remove solids with a solid separator system, prior to the manure entering the lagoon. [District Rule 4570] Federally Enforceable Through Title V Permit
3. Permittee shall not allow liquid manure to stand in the fields for more than twenty-four (24) hours after irrigation. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records to demonstrate liquid manure did not stand in the fields for more than twenty-four (24) hours after irrigation. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570] 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-4692-4-3

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

SOLID MANURE HANDLING CONSISTING OF MANURE STOCK PILES; AERATED STATIC PILE COMPOSTING;  
SOLID MANURE APPLICATION TO LAND AND/OR HAULED OFFSITE

## PERMIT UNIT REQUIREMENTS

---

1. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
2. Within seventy two (72) hours of removal of solid manure from housing, permittee shall either 1) remove dry manure from the facility, or 2) cover dry manure outside the housing with a weatherproof covering from October through May, except for times when wind events remove the covering, not to exceed twenty-four (24) hours per event. [District Rule 4570] Federally Enforceable Through Title V Permit
3. Permittee shall keep records of dates when manure is removed from the facility or permittee shall maintain records to demonstrate that dry manure piles outside the pens are covered with a weatherproof covering from October through May. [District Rule 4570] Federally Enforceable Through Title V Permit
4. If weatherproof coverings are used, permittee shall maintain records, such as manufacturer warranties or other documentation, demonstrating that the weatherproof covering over dry manure are installed, used, and maintained in accordance with manufacturer recommendations and applicable standards listed in NRCS Field Office Technical Guide Code 313 or 367, or any other applicable standard approved by the APCO, ARB, and EPA. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall incorporate all solid manure within seventy-two (72) hours of land application. [District Rule 4570] Federally Enforceable Through Title V Permit
6. Permittee shall maintain records to demonstrate that all solid manure has been incorporated within seventy-two (72) hours of land application. [District Rule 4570] Federally Enforceable Through Title V Permit
7. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570] 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-4692-5-1

EXPIRATION DATE: 12/31/2012

## EQUIPMENT DESCRIPTION:

1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
5. 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 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. On and after May 3, 2013, the engine's oil and filter shall be changed every 1,000 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests and required maintenance performed on the air pollution control and monitoring equipment. [District Rules 1070 and 2520 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rules 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. 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
17. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-10-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Emissions from this unit shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 0.20 g-VOC/bhp-hr, or 2.6 g-CO/bhp-hr. [District Rule 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. PM10 emissions shall not exceed 0.15 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
10. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] 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-4692-19-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] 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-4692-20-1

EXPIRATION DATE: 12/31/2012

## EQUIPMENT DESCRIPTION:

385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] 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-4692-21-1

EXPIRATION DATE: 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NO<sub>x</sub>/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. PM<sub>10</sub> emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] 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-4692-22-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NO<sub>x</sub>/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. PM<sub>10</sub> emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] 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-4692-23-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] 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-4692-24-1

EXPIRATION DATE: 12/31/2012

## EQUIPMENT DESCRIPTION:

385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
4. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NO<sub>x</sub>/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. PM<sub>10</sub> emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] 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-4692-25-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 500 GALLON PHASE I EXEMPT ABOVEGROUND STORAGE TANK AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE (IMPLEMENTS OF HUSBANDRY)

## PERMIT UNIT REQUIREMENTS

---

1. The storage tank shall be equipped with a permanent submerged fill pipe. [District Rule 4621] Federally Enforceable Through Title V Permit
2. The storage tank shall be used primarily for the fueling of implements of husbandry. [District Rule 4621] Federally Enforceable Through Title V Permit
3. The storage tank shall be maintained and operated such that it is leak-free. [District Rule 4621] Federally Enforceable Through Title V Permit
4. All records and data necessary to demonstrate compliance with the requirements of District Rule 4621(12/20/2007) or qualifications for the exemptions allowed in the rule shall be maintained for a minimum of five years and made available onsite during normal business hours to the APCO, ARB, or EPA, and submitted to the APCO, ARB, or EPA upon request. [District Rule 4621] 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-4692-26-2

EXPIRATION DATE: 12/31/2012

**EQUIPMENT DESCRIPTION:**

FEED STORAGE AND HANDLING CONSISTING OF COMMODITY BARNs AND SILAGE PILES

DRAFT

## PERMIT UNIT REQUIREMENTS

1. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570] Federally Enforceable Through Title V Permit
2. Permittee shall feed all animals according to National Research Council (NRC) guidelines. [District Rule 4570] Federally Enforceable Through Title V Permit
3. Permittee shall maintain records of feed content, formulation, and quantity of feed additive utilized, to demonstrate compliance with National Research Council (NRC) guidelines. Records such as feed company guaranteed analyses (feed tags), ration sheets, or feed purchase records may be used to meet this requirement. [District Rule 4570] Federally Enforceable Through Title V Permit
4. Permittee shall push feed so that it is within three feet of feedlane fence within two hours of putting out the feed or use a feed trough or other feeding structure designed to maintain feed within reach of the animals. [District Rule 4570] Federally Enforceable Through Title V Permit
5. Permittee shall maintain an operating plan/record that requires feed to be pushed within three feet of feedlane fence within two hours of putting out the feed, or use of a feed trough or other structure designed to maintain feed within reach of the animals. [District Rule 4570] Federally Enforceable Through Title V Permit
6. Permittee shall begin feeding total mixed rations within two hours of grinding and mixing rations. [District Rule 4570] Federally Enforceable Through Title V Permit
7. Permittee shall maintain an operating plan/record of when feeding of total mixed rations began within two hours of grinding and mixing rations. [District Rule 4570] Federally Enforceable Through Title V Permit
8. Permittee shall store grain in a weatherproof storage structure or under a weatherproof covering from October through May. [District Rule 4570] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records demonstrating grain is/was stored in a weatherproof storage structure or under a weatherproof covering from October through May. [District Rule 4570] Federally Enforceable Through Title V Permit
10. Permittee shall feed steam-flaked, dry rolled, cracked or ground corn or other steam-flaked, dry rolled, cracked or ground cereal grains. [District Rule 4570] Federally Enforceable Through Title V Permit
11. Permittee shall maintain records to demonstrate animals are fed steam-flaked, dry rolled, cracked or ground corn or other steam-flaked, dry rolled, cracked or ground cereal grains. Records such as feed company guaranteed analyses (feed tags), ration sheets, or feed purchase records may be used to meet this requirement. [District Rule 4570] 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.

DRAFT

12. For bagged silage/feedstuff, permittee shall utilize a sealed feed storage system (e.g., ag bag). [District Rule 4570] Federally Enforceable Through Title V Permit
13. Permittee shall cover all silage piles, except for the area where feed is being removed from the pile, with a plastic tarp that is at least five (5) mils (0.005 inches) thick, multiple plastic tarps with a cumulative thickness of at least 5 mils (0.005 inches), or an oxygen barrier film covered with a UV resistant material. Silage piles shall be covered within seventy-two (72) hours of last delivery of material to the pile. Sheets of material used to cover silage shall overlap so that silage is not exposed where the sheets meet. [District Rule 4570] Federally Enforceable Through Title V Permit
14. Permittee shall maintain records of the thickness and type of cover used to cover each silage pile. Permittee shall also maintain records of the date of the last delivery of material to each silage pile and the date each pile is covered. [District Rule 4570] Federally Enforceable Through Title V Permit
15. Permittee shall select and implement one of the following mitigation measures for building each silage pile at the facility: Option 1) build the silage pile such that the average bulk density is at least 44 lb/cu ft for corn silage and 40 lb/cu ft for other silage types, as measured in accordance with Section 7.11 of District Rule 4570; Option 2) Adjust filling parameters when creating the silage pile to achieve an average bulk density of at least 44 lb/cu ft for corn silage and at least 40 lb/cu ft for other silage types as determined using a District-approved spreadsheet; or Option 3) build silage piles using crops harvested with the applicable minimum moisture content, maximum Theoretical Length of Chop (TLC), and roller opening identified in District Rule 4570, Table 4.1, 1.d and manage silage material delivery such that the thickness of the layer of un-compacted material delivered on top of the pile is no more than six (6) inches. Records of the option chosen as a mitigation measure for building each silage pile shall be maintained. [District Rule 4570] Federally Enforceable Through Title V Permit
16. For each silage pile that Option 1 (Measured Bulk Density) is chosen as a mitigation measure for building the pile, records of the measured bulk density shall be maintained. [District Rule 4570] Federally Enforceable Through Title V Permit
17. For each silage pile that Option 2 (Bulk Density Determined by Spreadsheet) is chosen as a mitigation measure for building the pile, records of the filling parameters entered into the District-approved spreadsheet to determine the bulk density shall be maintained. [District Rule 4570] Federally Enforceable Through Title V Permit
18. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall harvest corn used for the pile at an average moisture content of at least 65% and harvest other silage crops for the pile at an average moisture content of at least 60%. [District Rule 4570] Federally Enforceable Through Title V Permit
19. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, records of the average percent moisture of crops harvested for silage shall be maintained. [District Rule 4570] Federally Enforceable Through Title V Permit
20. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall adjust setting of equipment used to harvest crops for the pile to incorporate the following parameters for Theoretical Length of Chop (TLC) and roller opening, as applicable: 1) Corn with no processing: TLC not exceeding 1/2 inch, 2) Processed Corn: TLC not exceeding 3/4 inch and roller opening of 1-4 mm, 3) Alfalfa/Grass: TLC not exceeding 1.0 inch, 4) Other silage crops: TLC not exceeding 1/2 inch. [District Rule 4570] Federally Enforceable Through Title V Permit
21. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, records that equipment used to harvest crops for the pile was set to the required TLC and roller opening for the type of crop harvested shall be maintained. [District Rule 4570] Federally Enforceable Through Title V Permit
22. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall manage silage material delivery such that the thickness of the layer of un-compacted material delivered on top of the pile is no more than six (6) inches. [District Rule 4570] 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.

23. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall maintain a plan that requires that the thickness of the layer of un-compacted material delivered on top of the pile is no more than six (6) inches. [District Rule 4570] Federally Enforceable Through Title V Permit
24. Permittee shall select and implement at least two of the following mitigation measures for management of silage piles at the facility: Option 1) manage silage piles such that only one silage pile has an uncovered face and the total exposed surface area is less than 2,150 square feet, or manage multiple uncovered silage piles such that the total exposed surface area of all uncovered silage piles is less than 4,300 square feet; Option 2) use a shaver/facer to remove silage from the silage pile, or shall use another method to maintain a smooth vertical surface on the working face of the silage pile; or Option 3) inoculate silage with homolactic lactic acid bacteria in accordance with manufacturer recommendations to achieve a concentration of at least 100,000 colony forming units per gram of wet forage, apply propionic acid, benzoic acid, sorbic acid, sodium benzoate, or potassium sorbate at the rate specified by the manufacturer to reduce yeast counts when forming silage piles, or apply other additives at rates that have been demonstrated to reduce alcohol concentrations in silage and/or VOC emissions from silage and have been approved by the District and EPA. Records of the options chosen for managing each silage pile shall be maintained. [District Rule 4570] Federally Enforceable Through Title V Permit
25. If Option 1 (Limiting Exposed Area of Silage) is chosen as a mitigation measure for managing silage piles, the permittee shall calculate and record the maximum (largest part of pile) total exposed area of each silage pile. Records of the maximum calculated area shall be maintained. [District Rule 4570] Federally Enforceable Through Title V Permit
26. For each silage pile that Option 2 (Shaver/Facer or Smooth Face) is chosen as a mitigation measure for building the pile, the permittee shall maintain records that a shaver/facer was used to remove silage from the pile or shall visually inspect the pile at least daily to verify that the working face was smooth and maintain records of the visual inspections. [District Rule 4570] Federally Enforceable Through Title V Permit
27. For each silage pile that Option 3 (Silage Additives) is chosen as a mitigation measure for building the pile, records shall be maintained of the type additive (e.g. inoculants, preservative, other District & EPA-approved additive), the quantity of the additive applied to the pile, and a copy of the manufacturers instructions for application of the additive. [District Rule 4570] Federally Enforceable Through Title V Permit
28. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-27-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rules 2201 and 4701] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,000 hours per year. [District Rules 2201] Federally Enforceable Through Title V Permit
5. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] 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] Federally Enforceable Through Title V Permit
10. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702] Federally Enforceable Through Title V Permit
12. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



13. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-28-1

**EXPIRATION DATE:** 12/31/2012

**SECTION:** 11 **TOWNSHIP:** 31S **RANGE:** 26E

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)

## PERMIT UNIT REQUIREMENTS

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201 and 4701] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,000 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.15 g-VOC/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [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. 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] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-29-1

**EXPIRATION DATE:** 12/31/2012

**SECTION:** 14 **TOWNSHIP:** 31S **RANGE:** 26E

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201 and 4701] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 3,000 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.15 g-VOC/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [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. 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] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-30-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201 and 4701] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 4,000 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.15 g-VOC/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. 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] 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-4692-31-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)

## PERMIT UNIT REQUIREMENTS

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201 and 4701] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 4,000 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.15 g-VOC/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. 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] 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-4692-32-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)

## PERMIT UNIT REQUIREMENTS

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201 and 4701] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operation of this engine shall not exceed 4,000 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.15 g-VOC/bhp-hr. [District Rules 2201 and 4702, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 40 CFR 60.4201(a), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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, 40 CFR 60.4211(a) and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. 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] Federally Enforceable Through Title V Permit

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



# Attachment A

## Detailed Facility Printout

**Detailed Facility Report**  
For Facility=4692 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>BELLANAVE CORPORATION</b> 14461 HIGHWAY 119 BAKERSFIELD, CA 93311	FAC # STATUS: TELEPHONE:	<b>S 4692</b> <b>A</b>	TYPE: TOXIC ID:	<b>TitleV</b>	EXPIRE ON: AREA: INSP. DATE:	12/31/2012 7 / 01/14
--	--------------------------------	---------------------------	--------------------	---------------	------------------------------------	----------------------------

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-4692-1-2	MILKING PARLOR	3020-06	1	105.00	105.00	A	8,880 COW MILKING OPERATION WITH FOUR DOUBLE 35 PARALLEL (280 STALLS) MILKING PARLOR
S-4692-2-2	COW HOUSING	3020-06	1	105.00	105.00	A	COW HOUSING - 8,880 MILK COWS NOT TO EXCEED A COMBINED TOTAL OF 10,105 MATURE COWS (MILK AND DRY COWS); 6,915 TOTAL SUPPORT STOCK (HEIFERS AND BULLS); AND 11 FREESTALLS WITH VACUUM SYSTEM
S-4692-3-2	LIQUID MANURE HANDLING	3020-06	1	105.00	105.00	A	LIQUID MANURE HANDLING SYSTEM CONSISTING OF 17 SETTLING BASINS AND 1 TRANSFER PIT; 4 STORAGE PONDS; MANURE IS LAND APPLIED THROUGH FLOOD IRRIGATION, LIQUID INJECTION, SPRINKLER IRRIGATION, AND FURROW IRRIGATION
S-4692-4-2	SOLID MANURE HANDLING	3020-06	1	105.00	105.00	A	SOLID MANURE HANDLING CONSISTING OF MANURE STOCK PILES; AERATED STATIC PILE COMPOSTING; SOLID MANURE APPLICATION TO LAND AND/OR HAULED OFFSITE
S-4692-5-0	1,720 BHP DIESEL ENGINE	3020-10 F	1	749.00	749.00	A	1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-4692-10-0	375 BHP DIESEL ENGINE	3020-10 C	1	240.00	240.00	A	375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)
S-4692-19-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)
S-4692-20-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)
S-4692-21-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)
S-4692-22-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)
S-4692-23-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)
S-4692-24-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)

**Detailed Facility Report**  
For Facility=4692 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-4692-25-0	1 Nozzle	3020-11 A	1	34.00	34.00	A	AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 1000 GALLON PHASE I EXEMPT ABOVEGROUND STORAGE TANK AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE (IMPLEMENTS OF HUSBANDRY)
S-4692-26-1	FEED STORAGE AND HANDLING	3020-06	1	105.00	105.00	A	FEED STORAGE AND HANDLING CONSISTING OF COMMODITY BARN AND SILAGE PILES
S-4692-27-0	385 BHP DIESEL-FIRED IC ENGINE	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)
S-4692-28-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)
S-4692-29-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)
S-4692-30-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)
S-4692-31-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)
S-4692-32-0	385 bhp IC engine	3020-10 C	1	240.00	240.00	A	385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)

Number of Facilities Reported: 1

# Attachment B

## Current District PTOs

# San Joaquin Valley Air Pollution Control District

**FACILITY:** S-4692-0-0

**EXPIRATION DATE:** 12/31/2012

## **FACILITY-WIDE REQUIREMENTS**

---

1. 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 1070]
2. 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 1070]
3. This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]
4. S-4692 and S-4693 are part of the same stationary source. [District Rule 2201]

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: BELLANAVE CORPORATION

Location: 14461 HIGHWAY 119, BAKERSFIELD, CA 93311

S-4692-0-0 : Apr 8 2013 9:18AM - ROBERTSD

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-1-2

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

8,880 COW MILKING OPERATION WITH FOUR DOUBLE 35 PARALLEL (280 STALLS) MILKING PARLOR

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall implement and maintain all the mitigation measures contained in this permit on and after March 2, 2013. [District Rule 4570]
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570]
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570]
4. Permittee shall flush or hose milk parlor immediately prior to, immediately after, or during each milking. [District Rule 4570]
5. Permittee shall provide verification that milk parlors are flushed or hosed prior to, immediately after, or during each milking. [District Rule 4570]
6. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-2-2

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

COW HOUSING - 8,880 MILK COWS NOT TO EXCEED A COMBINED TOTAL OF 10,105 MATURE COWS (MILK AND DRY COWS); 6,915 TOTAL SUPPORT STOCK (HEIFERS AND BULLS); AND 11 FREESTALLS WITH VACUUM SYSTEM

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall implement and maintain all the mitigation measures contained in this permit on and after March 2, 2013. [District Rule 4570]
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570]
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570]
4. Permittee shall pave feedlanes, where present, for a width of at least 8 feet along the corral side of the feedlane fence for milk and dry cows and at least 6 feet along the corral side of the feedlane for heifers. [District Rule 4570]
5. Permittee shall flush, scrape or vacuum freestall lanes immediately prior to, immediately after or during each milking. [District Rule 4570]
6. Permittee shall maintain records sufficient to demonstrate that freestall lanes are flushed, scraped or vacuumed immediately prior to, immediately after or during each milking. [District Rule 4570]
7. Permittee shall remove manure that is not dry from individual cow freestall beds or rake, harrow, scrape, or grade freestall bedding at least once every seven (7) days. [District Rule 4570]
8. Permittee shall record the date that manure that is not dry is removed from individual cow freestall beds or raked, harrowed, scraped, or freestall bedding is graded at least once every seven (7) days. [District Rule 4570]
9. Permittee shall inspect water pipes and troughs and repair leaks at least once every seven (7) days. [District Rule 4570]
10. Permittee shall maintain records demonstrating that water pipes and troughs are inspected and leaks are repaired at least once every seven (7) days. [District Rule 4570]
11. Permittee shall clean manure from corrals at least four (4) times per year with at least sixty (60) days between each cleaning, or permittee shall clean corrals at least once between April and July and at least once between September and December. [District Rule 4570]
12. Permittee shall demonstrate that manure from corrals are cleaned at least four (4) times per year with at least sixty (60) days between each cleaning or demonstrate that corrals are cleaned at least once between April and July and at least once between September and December. [District Rule 4570]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Permittee shall implement at least one of the following corral mitigation measures: 1) slope the surface of the corrals at least 3% where the available space for each animal is 400 square feet or less and shall slope the surface of the corrals at least 1.5% where the available space for each animal is more than 400 square feet per animal; 2) maintain corrals to ensure proper drainage preventing water from standing more than forty-eight hours; or 3) harrow, rake, or scrape pens sufficiently to maintain a dry surface except during periods of rainy weather. [District Rule 4570]
14. Permittee shall either 1) maintain sufficient records to demonstrate that corrals are maintained to ensure proper drainage preventing water from standing for more than forty-eight hours or 2) maintain records of dates pens are groomed (i.e., harrowed, raked, or scraped, etc.). [District Rule 4570]
15. Permittee shall scrape, vacuum or flush concrete lanes in corrals at least once every day for mature cows and every seven (7) days for support stock. [District Rule 4570]
16. Permittee shall maintain records demonstrating that concrete lanes in corrals are scraped, vacuumed, or flushed at least once every day for mature cows and at least once every seven (7) days for support stock. [District Rule 4570]
17. Shade structures shall be installed in any of the following ways: 1) constructed with a light permeable roofing material; 2) uphill of any slope in the corral; 3) installed so that the structure has a North/South orientation. OR Permittee shall clean manure from under corral shades at least once every fourteen (14) days, when weather permits access into the corral. [District Rule 4570]
18. Permittee shall manage corrals such that the manure depth in the corral does not exceed twelve (12) inches at any time or point, except for in-corral mounding. Manure depth may exceed 12 inches when corrals become inaccessible due to rain events. However, permittee must resume management of the manure depth of 12 inches or lower immediately upon the corral becoming accessible. [District Rule 4570]
19. Permittee shall measure and document the depth of manure in the corrals at least once every ninety (90) days. [District Rule 4570]
20. Permittee shall maintain a record of the number of animals of each species and production group at the facility and shall maintain quarterly records of any changes to this information. [District Rule 4570]
21. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570]

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



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-3-2

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

LIQUID MANURE HANDLING SYSTEM CONSISTING OF 17 SETTLING BASINS AND 1 TRANSFER PIT; 4 STORAGE PONDS; MANURE IS LAND APPLIED THROUGH FLOOD IRRIGATION, LIQUID INJECTION, SPRINKLER IRRIGATION, AND FURROW IRRIGATION

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall implement and maintain all the mitigation measures contained in this permit on and after March 2, 2013. [District Rule 4570]
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570]
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570]
4. Permittee shall remove solids with a solid separator system, prior to the manure entering the lagoon. [District Rule 4570]
5. Permittee shall not allow liquid manure to stand in the fields for more than twenty-four (24) hours after irrigation. [District Rule 4570]
6. Permittee shall maintain records to demonstrate liquid manure did not stand in the fields for more than twenty-four (24) hours after irrigation. [District Rule 4570]
7. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-4-2

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

SOLID MANURE HANDLING CONSISTING OF MANURE STOCK PILES; AERATED STATIC PILE COMPOSTING;  
SOLID MANURE APPLICATION TO LAND AND/OR HAULED OFFSITE

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall implement and maintain all the mitigation measures contained in this permit on and after March 2, 2013. [District Rule 4570]
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570]
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570]
4. Within seventy two (72) hours of removal of solid manure from housing, permittee shall either 1) remove dry manure from the facility, or 2) cover dry manure outside the housing with a weatherproof covering from October through May, except for times when wind events remove the covering, not to exceed twenty-four (24) hours per event. [District Rule 4570]
5. Permittee shall keep records of dates when manure is removed from the facility or permittee shall maintain records to demonstrate that dry manure piles outside the pens are covered with a weatherproof covering from October through May. [District Rule 4570]
6. If weatherproof coverings are used, permittee shall maintain records, such as manufacturer warranties or other documentation, demonstrating that the weatherproof covering over dry manure are installed, used, and maintained in accordance with manufacturer recommendations and applicable standards listed in NRCS Field Office Technical Guide Code 313 or 367, or any other applicable standard approved by the APCO, ARB, and EPA. [District Rule 4570]
7. Permittee shall incorporate all solid manure within seventy-two (72) hours of land application. [District Rule 4570]
8. Permittee shall maintain records to demonstrate that all solid manure has been incorporated within seventy-two (72) hours of land application. [District Rule 4570]
9. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-5-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

1,720 BHP CATERPILLAR MODEL 3516A S/N 25203650 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE  
POWERING AN ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4701]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
7. 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]
8. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702]
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
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, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
11. 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]
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-10-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

375 BHP CATERPILLAR MODEL C-11 S/N GLS00104 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #3)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
7. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be consumed by the engine. [District Rule 4801 and 17 CCR 93115]
9. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
10. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-19-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00245 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #1)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201]
7. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
10. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-20-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00253 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #2)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201]
7. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
10. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-21-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00258 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #8)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201]
7. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
10. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-22-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00261 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #10)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201]
7. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
10. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-23-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00249 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #9)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201]
7. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
10. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-24-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00263 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #11)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,600 hours per year. [District Rule 2201]
7. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NO<sub>x</sub>/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. PM<sub>10</sub> emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
10. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-25-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

AGRICULTURAL GASOLINE DISPENSING OPERATION WITH ONE 500 GALLON PHASE I EXEMPT ABOVEGROUND STORAGE TANK AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE (IMPLEMENTS OF HUSBANDRY)

## PERMIT UNIT REQUIREMENTS

---

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The storage tank shall be equipped with a permanent submerged fill pipe. [District Rule 4621]
3. The storage tank shall be used primarily for fueling implements of husbandry. [District Rule 4621]
4. The storage tank shall be maintained and operated such that it is leak-free. [District Rule 4621]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-26-1

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

FEED STORAGE AND HANDLING CONSISTING OF COMMODITY BARNs AND SILAGE PILES

## PERMIT UNIT REQUIREMENTS

---

1. Permittee shall implement and maintain all the mitigation measures contained in this permit on and after March 2, 2013. [District Rule 4570]
2. Mitigation measures that are currently being implemented as required by Phase I of Rule 4570 should continue to be implemented until the mitigation measures required under this permit are implemented. [District Rule 4570]
3. If a licensed veterinarian or a certified nutritionist determines that any VOC mitigation measure will be required to be suspended as a detriment to animal health or necessary for the animal to molt, the owners/operators must notify the District in writing within forty-eight (48) hours of the determination including the duration and the specific health condition requiring the mitigation measure to be suspended. If the situation is expected to exist longer than a thirty-day (30) period, the owner/operator shall submit a new emission mitigation plan designating a mitigation measure to be implemented in lieu of the suspended mitigation measure. [District Rule 4570]
4. Permittee shall feed all animals according to National Research Council (NRC) guidelines. [District Rule 4570]
5. Permittee shall maintain records of feed content, formulation, and quantity of feed additive utilized, to demonstrate compliance with National Research Council (NRC) guidelines. Records such as feed company guaranteed analyses (feed tags), ration sheets, or feed purchase records may be used to meet this requirement. [District Rule 4570]
6. Permittee shall push feed so that it is within three feet of feedlane fence within two hours of putting out the feed or use a feed trough or other feeding structure designed to maintain feed within reach of the animals. [District Rule 4570]
7. Permittee shall maintain an operating plan/record that requires feed to be pushed within three feet of feedlane fence within two hours of putting out the feed, or use of a feed trough or other structure designed to maintain feed within reach of the animals. [District Rule 4570]
8. Permittee shall begin feeding total mixed rations within two hours of grinding and mixing rations. [District Rule 4570]
9. Permittee shall maintain an operating plan/record of when feeding of total mixed rations began within two hours of grinding and mixing rations. [District Rule 4570]
10. Permittee shall store grain in a weatherproof storage structure or under a weatherproof covering from October through May. [District Rule 4570]
11. Permittee shall maintain records demonstrating grain is/was stored in a weatherproof storage structure or under a weatherproof covering from October through May. [District Rule 4570]
12. Permittee shall feed steam-flaked, dry rolled, cracked or ground corn or other steam-flaked, dry rolled, cracked or ground cereal grains. [District Rule 4570]
13. Permittee shall maintain records to demonstrate animals are fed steam-flaked, dry rolled, cracked or ground corn or other steam-flaked, dry rolled, cracked or ground cereal grains. Records such as feed company guaranteed analyses (feed tags), ration sheets, or feed purchase records may be used to meet this requirement. [District Rule 4570]
14. For bagged silage/feedstuff, permittee shall utilize a sealed feed storage system (e.g., ag bag). [District Rule 4570]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Permittee shall cover all silage piles, except for the area where feed is being removed from the pile, with a plastic tarp that is at least five (5) mils (0.005 inches) thick, multiple plastic tarps with a cumulative thickness of at least 5 mils (0.005 inches), or an oxygen barrier film covered with a UV resistant material. Silage piles shall be covered within seventy-two (72) hours of last delivery of material to the pile. Sheets of material used to cover silage shall overlap so that silage is not exposed where the sheets meet. [District Rule 4570]
16. Permittee shall maintain records of the thickness and type of cover used to cover each silage pile. Permittee shall also maintain records of the date of the last delivery of material to each silage pile and the date each pile is covered. [District Rule 4570]
17. Permittee shall select and implement one of the following mitigation measures for building each silage pile at the facility: Option 1) build the silage pile such that the average bulk density is at least 44 lb/cu ft for corn silage and 40 lb/cu ft for other silage types, as measured in accordance with Section 7.11 of District Rule 4570; Option 2) Adjust filling parameters when creating the silage pile to achieve an average bulk density of at least 44 lb/cu ft for corn silage and at least 40 lb/cu ft for other silage types as determined using a District-approved spreadsheet; or Option 3) build silage piles using crops harvested with the applicable minimum moisture content, maximum Theoretical Length of Chop (TLC), and roller opening identified in District Rule 4570, Table 4.1, 1.d and manage silage material delivery such that the thickness of the layer of un-compacted material delivered on top of the pile is no more than six (6) inches. Records of the option chosen as a mitigation measure for building each silage pile shall be maintained. [District Rule 4570]
18. For each silage pile that Option 1 (Measured Bulk Density) is chosen as a mitigation measure for building the pile, records of the measured bulk density shall be maintained. [District Rule 4570]
19. For each silage pile that Option 2 (Bulk Density Determined by Spreadsheet) is chosen as a mitigation measure for building the pile, records of the filling parameters entered into the District-approved spreadsheet to determine the bulk density shall be maintained. [District Rule 4570]
20. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall harvest corn used for the pile at an average moisture content of at least 65% and harvest other silage crops for the pile at an average moisture content of at least 60%. [District Rule 4570]
21. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, records of the average percent moisture of crops harvested for silage shall be maintained. [District Rule 4570]
22. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall adjust setting of equipment used to harvest crops for the pile to incorporate the following parameters for Theoretical Length of Chop (TLC) and roller opening, as applicable: 1) Corn with no processing: TLC not exceeding 1/2 inch, 2) Processed Corn: TLC not exceeding 3/4 inch and roller opening of 1-4 mm, 3) Alfalfa/Grass: TLC not exceeding 1.0 inch, 4) Other silage crops: TLC not exceeding 1/2 inch. [District Rule 4570]
23. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, records that equipment used to harvest crops for the pile was set to the required TLC and roller opening for the type of crop harvested shall be maintained. [District Rule 4570]
24. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall manage silage material delivery such that the thickness of the layer of un-compacted material delivered on top of the pile is no more than six (6) inches. [District Rule 4570]
25. For each silage pile that Option 3 (Moisture, TLC, Roller Opening, & Material Delivery) is chosen as a mitigation measure for building the pile, the permittee shall maintain a plan that requires that the thickness of the layer of un-compacted material delivered on top of the pile is no more than six (6) inches. [District Rule 4570]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. Permittee shall select and implement at least two of the following mitigation measures for management of silage piles at the facility: Option 1) manage silage piles such that only one silage pile has an uncovered face and the total exposed surface area is less than 2,150 square feet, or manage multiple uncovered silage piles such that the total exposed surface area of all uncovered silage piles is less than 4,300 square feet; Option 2) use a shaver/facer to remove silage from the silage pile, or shall use another method to maintain a smooth vertical surface on the working face of the silage pile; or Option 3) inoculate silage with homolactic lactic acid bacteria in accordance with manufacturer recommendations to achieve a concentration of at least 100,000 colony forming units per gram of wet forage, apply propionic acid, benzoic acid, sorbic acid, sodium benzoate, or potassium sorbate at the rate specified by the manufacturer to reduce yeast counts when forming silage piles, or apply other additives at rates that have been demonstrated to reduce alcohol concentrations in silage and/or VOC emissions from silage and have been approved by the District and EPA. Records of the options chosen for managing each silage pile shall be maintained. [District Rule 4570]
27. If Option 1 (Limiting Exposed Area of Silage) is chosen as a mitigation measure for managing silage piles, the permittee shall calculate and record the maximum (largest part of pile) total exposed area of each silage pile. Records of the maximum calculated area shall be maintained. [District Rule 4570]
28. For each silage pile that Option 2 (Shaver/Facer or Smooth Face) is chosen as a mitigation measure for building the pile, the permittee shall maintain records that a shaver/facer was used to remove silage from the pile or shall visually inspect the pile at least daily to verify that the working face was smooth and maintain records of the visual inspections. [District Rule 4570]
29. For each silage pile that Option 3 (Silage Additives) is chosen as a mitigation measure for building the pile, records shall be maintained of the type additive (e.g. inoculants, preservative, other District & EPA-approved additive), the quantity of the additive applied to the pile, and a copy of the manufacturers instructions for application of the additive. [District Rule 4570]
30. Permittee shall keep and maintain all records for a minimum of five (5) years and shall make records available to the APCO and EPA upon request. [District Rule 4570]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-27-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00251 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #7)

## PERMIT UNIT REQUIREMENTS

---

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]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rules 2201, 4701, and 4702]
5. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. 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]
7. Operation of this engine shall not exceed 3,000 hours per year. [District Rules 2201, 4702, and 17 CCR 93115]
8. Emissions from this unit shall not exceed any of the following limits: 2.69 g-NOx/bhp-hr, 0.82 g-VOC/bhp-hr, or 0.65 g-CO/bhp-hr. [District Rules 2201, 4702, and 17 CCR 93115]
9. PM10 emissions shall not exceed 0.075 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
11. The engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
12. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections, change engine oil and filters, replace engine coolant, and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
13. The permittee shall maintain an engine-operating log that includes, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 4702]
14. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
15. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-28-0

**EXPIRATION DATE:** 12/31/2012

**SECTION:** 11 **TOWNSHIP:** 31S **RANGE:** 26E

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK17233 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #5)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201, 4701, and 4702]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,000 hours per year. [District Rule 2201]
7. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.15 g-VOC/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
10. 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]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702]

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



# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-29-0

**EXPIRATION DATE:** 12/31/2012

**SECTION:** 14 **TOWNSHIP:** 31S **RANGE:** 26E

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK17236 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #6)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201, 4701, and 4702]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
6. Operation of this engine shall not exceed 3,000 hours per year. [District Rule 2201]
7. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.15 g-VOC/bhp-hr. [District Rules 2201 and 4702, and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
10. 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]
11. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702]
13. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-30-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00262 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #12)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201, 4701, and 4702]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
5. Operation of this engine shall not exceed 4,000 hours per year. [District Rule 2201]
6. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.2 g-VOC/bhp-hr. [District Rule 2201 and 4702, and 17 CCR 93115]
7. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201 and 4102, and 17 CCR 93115]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
10. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
11. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702]
12. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-31-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00252 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #13)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201, 4701, and 4702]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
5. Operation of this engine shall not exceed 4,000 hours per year. [District Rule 2201]
6. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.2 g-VOC/bhp-hr. [District Rule 2201 and 4702, and 17 CCR 93115]
7. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201 and 4102, and 17 CCR 93115]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
10. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
11. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702]
12. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-4692-32-0

**EXPIRATION DATE:** 12/31/2012

**EQUIPMENT DESCRIPTION:**

385 BHP CATERPILLAR MODEL C13 S/N LGK00260 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AGRICULTURAL IRRIGATION PUMP (WELL #14)

## PERMIT UNIT REQUIREMENTS

---

1. This IC engine shall only be used for the growing of crops or raising of fowl or animals. [District Rule 2201, 4701, and 4702]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
5. Operation of this engine shall not exceed 4,000 hours per year. [District Rule 2201]
6. Emissions from this IC engine shall not exceed any of the following limits: 2.8 g-NOx/bhp-hr, 2.6 g-CO/bhp-hr, or 0.2 g-VOC/bhp-hr. [District Rule 2201 and 4702, and 17 CCR 93115]
7. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201 and 4102, and 17 CCR 93115]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
10. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
11. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. [District Rule 4702]
12. The permittee shall record the total time the engine operates, in hours per calendar year. [District Rule 2201]
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702]

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