



**FEB 27 2014**

Mr Juan Casillas  
Ingredion Incorporated  
PO Box 6129  
Stockton CA 95206

**Re Notice of Preliminary Decision – Title V Permit Renewal  
District Facility # N-238  
Project # N-1133198**

Dear Mr Casillas

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Ingredion Incorporated at 1021 Industrial Drive in Stockton, 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 renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr 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

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

## **Proposed Title V Permit Renewal Evaluation Ingredion Incorporated N-238**

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**TITLE V PERMIT RENEWAL EVALUATION**  
**Grain Milling and Processing**

**Engineer** John Yoshimura  
**Date** January 30, 2014

**Facility Number** N-238  
**Facility Name** Ingredion Incorporated  
**Mailing Address** P O Box 6129  
Stockton CA 95206-0129

**Contact Name** Juan Carlos Casillas  
**Phone** (209) 982-1920

**Responsible Official** Juan Carlos Casillas  
**Title** Stockton Plant Manager

**Project #** N-1133198  
**Deemed Complete** October 14 2013

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**I PROPOSAL**

Ingredion Incorporated was issued a Title V permit on November 30, 2004. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

**II FACILITY LOCATION**

Ingredion Incorporated is located at 1021 Industrial Drive in Stockton, CA

### III EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment A

### IV GENERAL PERMIT TEMPLATE USAGE

The applicant has requested to utilize template No SJV-UM-0-3 Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template

### V SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Renewed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements originate from model general permit templates and are not subject to further EPA or public review.

- Conditions 1-40 of the requirements for permit unit N-238-0-3

All other applicable federally enforceable requirements in this Title V permit will be subject to EPA and public review.

### VI FEDERALLY ENFORCEABLE REQUIREMENTS

#### A Rules Updated

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

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

**B Rules Removed**

No rules have been removed

**C Rules Added**

No rules have been added

**D Rules Not Updated**

District Rule 1081, Source Sampling  
(amended December 16, 1993)

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

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

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

District Rule 2080 Conditional Approval  
(amended December 17 1992)

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

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

District Rule 4202 Particulate Matter - Emission Rate  
(amended December 17 1992)

District Rule 4309, Dryers, Dehydrators, and Ovens  
(adopted December 15 2005)

District Rule 4703 Stationary Gas Turbines  
(amended September 20 2007)

40 CFR Part 60 Subpart GG Standards of Performance for Stationary Gas Turbines  
(amended February 24, 2006)

40 CFR Part 64 Compliance Assurance Monitoring (CAM)

## VII REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

### A Rules Added

No rules have been added.

### B Rules Not Updated

District Rule 1070 Inspections  
(amended December 17, 1992)

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

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

District Rule 2040 Applications  
(amended December 17, 1992)

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

District Rule 4801 Sulfur Compounds  
(amended December 17, 1992)

## VIII PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit.

### A District Rule 2020 - Exemptions

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

exemptions The amendments to this rule do not have any effect on current permit requirements and will therefore not be addressed in this evaluation

Condition 4 of the facility wide permit N-238-0-3 ensures compliance

**B District Rule 2201 - New and Modified Stationary Source Review Rule**

District Rule 2201 has been amended since this facility's initial Title V permit was issued This Title V permit renewal does not constitute a modification per section 3 26 defined as an action including at least one of the following items

- 1) Any change in hours of operation production rate, or method of operation of an existing emissions unit which would necessitate a change in permit conditions
- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions Routine replacement shall not be considered to be a structural change
- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation
- 4) Addition of any new emissions unit which is subject to District permitting requirements
- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject

Therefore, the updated requirements of this rule are not applicable at this time

**C District Rule 4309 - Dryers, Dehydrators, and Ovens**

The purpose of this rule is to limit emissions of oxides of nitrogen (NOx) and carbon monoxide (CO) from dryers dehydrators and ovens This rule applies to any dryer, dehydrator or oven that is fired on gaseous fuel liquid fuel, or is fired on gaseous and liquid fuel sequentially and the total rated heat input for the unit is 5 0 million British thermal units per hour (5 0 MMBtu/hr) or greater

The facility has three dryers N-238-10 -13, and '-33 Unit -10 is fired on natural gas and the dried product comes in direct contact with the combusted gas Units '-13 and -33 are steam tube dryers with no products of combustion

Section 3 10 defines a dryer as any device in which material is dried or cured in direct contact with the products of combustion. Therefore, only unit N-238-10 is subject to District Rule 4309.

N-238-10 Natural Gas-Fired Dryer

Table 1 in Section 5 2 specifies NOx and CO emissions limits.

Table 1 – NOx and CO Limits for Rule 4309 (Referenced @ 19% O <sub>2</sub> )				
Process Description	NO <sub>x</sub> Limit (ppmv)		CO Limit (ppmv)	
	Gaseous Fuel Fired	Liquid Fuel Fired	Gaseous Fuel Fired	Liquid Fuel Fired
Asphalt/Concrete Plants	4.3	12.0	42	64
Milk, Cheese and Dairy Processing < 20 MMBtu/hr	3.5	3.5	42	42
Milk, Cheese and Dairy Processing ≥ 20 MMBtu/hr	5.3	5.3	42	42
Other processes not described above	4.3	4.3	42	42

The starch dryer falls under the "Other processes not described above" category. The NOx and CO emissions limits for this dryer do not exceed the maximum allowable emissions limits specified above.

Conditions 4 and 5 of permit N-238-10-10 ensure compliance.

Section 5 3 states that the emission limits in Section 5 2 shall not apply during start-up or shutdown periods provided an operator complies with specified requirements. The dryer is not subject to start-up and shutdown provisions and subsequently does not have relaxed emission limits during such periods. Therefore, this section is not applicable.

Section 5 4 requires the operators of dryers and ovens subject to the emissions limits specified in Section 5 2 to install continuous emissions monitoring or an alternate monitoring system approved by the APCO. The dryer is using an APCO approved alternate monitoring system.

Conditions 25-28 of permit N-238-10-10 ensure compliance.

Section 5 5 1 states that all emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate.

Condition 17 of permit N-238-10-10 ensures compliance.



Section 5 5 2 states that except as provided in Section 5 5 3, no determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition

Condition 17 of permit N-238-10-10 ensures compliance

Section 5 5 3 states that notwithstanding the requirements of Section 5 5 2, the APCO, ARB and US EPA may approve a longer or shorter period before compliance determination, if an operator submits an application for a Permit to Operate condition which provides justification for the requested duration. The facility has not requested a longer or shorter period of compliance determination for the dryer as specified in Section 5 5 2. Therefore this section is not applicable.

Section 5 5 4 pertains to units equipped with continuous emissions monitoring systems. The dryer is not equipped with continuous emissions monitoring systems. Therefore this section is not applicable.

Section 5 5 5 states that emission readings of NO<sub>x</sub> exhaust concentrations shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15-consecutive-minute sample reading or by taking at least five readings evenly spaced out over the 15-consecutive-minute period.

Condition 27 of permit N-238-10-10 ensures compliance

Section 5 5 6 states that for emissions source testing pursuant to Section 6 3 1 to determine compliance with an applicable emissions limit of this rule, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the unit, even if the averaged emissions of all three test runs is less than the applicable limit.

Condition 19 of permit N-238-10-10 ensures compliance

Section 6 1 1 lists the recordkeeping requirements for a unit that uses a continuous emissions monitoring system. The dryer does not use a continuous emissions monitoring system. Therefore this section is not applicable.

Section 6 1 2 states that operators using an alternate emissions monitoring system shall maintain the following records on a periodic basis:

- Total hours of operation
- Type and quantity of fuel used during operations

- Measurement for each surrogate parameter
- Range of allowed values for each surrogate parameter
- The period for recordkeeping shall be specified in the PTO conditions

The facility's APCO approved alternate monitoring plan does not require monitoring of surrogate parameters

Compliance with the hours of operation and fuel usage recordkeeping requirements are assured with condition 30 of permit N-238-10-10

Section 6 1 3 only applies to dehydrators Therefore this section is not applicable to the dryers

Section 6 1 4 states that the operator of a unit subject to Section 5 2 and performing start-up or shutdown of that unit shall keep records of the duration of each start-up and each shutdown The facility has not proposed start-up or shutdown periods for the dryer Therefore this section is not applicable

Section 6 1 5 lists the recordkeeping requirements for an operator of any unit operated under the exemption of Section 4 3 The dryer does not operate under the exemption in Section 4 3 Therefore the requirements in this section do not apply

Section 6 1 6 states the records and manufacturer's specifications required by Sections 6 1 1 through 6 1 5 shall meet all of the following requirements

- The records shall be maintained for five (5) calendar years
- The records shall be made available on-site during normal business hours and
- The records shall be submitted to the APCO upon request

Conditions 30 and 37 of permit N-238-10-10 ensure compliance

Section 6 2 identifies the following test methods as District-approved source testing methods for the pollutants listed

<b>Pollutant</b>	<b>Units</b>	<b>Test Method Required</b>
NO <sub>x</sub>	ppmv	EPA Method 7E or ARB Method 100
CO	ppmv	EPA Method 10 or ARB Method 100
Stack Gas O <sub>2</sub>	%	EPA Method 3 or 3A or ARB Method 100
Stack Gas Velocities	ft/min	EPA Method 2
Stack Gas Moisture Content	%	EPA Method 4

Conditions 20-22 of permit N-238-10-10 ensure compliance

Section 6 3 1 applies to dehydrators. There are no dehydrators at the facility. Therefore, this section is not applicable.

Section 6 3 2 states that after initial source testing, each unit subject to Section 5 2 emission limits shall be source tested at least once every 24 months.

Condition 18 of permit N-238-10-10 ensures compliance.

Section 6 3 3 states source testing requirements for units that operate less than 50 days per calendar year. The dryer operates more than 50 days per calendar year. Therefore, this section is not applicable.

Section 6 3 4 states that each exhaust stack of a unit subject to the requirements of Section 4 3 or 5 2 shall be source-tested to demonstrate compliance with the applicable emission limits.

Condition 18 of permit N-238-10-10 ensures compliance.

Section 6 3 5 states the APCO shall be notified according to the provisions of Rule 1081 (Source Sampling).

Conditions 23-24 of permit N-238-10-10 ensure compliance.

Section 6 3 6 states that emissions source testing shall be conducted with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate.

Condition 17 of permit N-238-10-10 ensures compliance.

Section 6 3 7 states that all test results for NO<sub>x</sub> and CO shall be reported in ppmv corrected to dry stack conditions and adjusted using the oxygen correction factor.

Condition 30 of permit N-238-10-10 ensures compliance.

Section 6 3 8 states that for the purpose of determining compliance with an applicable emission limit, the arithmetic average of three 30-consecutive-minute test runs shall apply.

Condition 19 of permit N-238-10-10 ensures compliance.

Section 6 3 9 states that if two of the three runs specified by Section 6 3 8 individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the unit, even if the averaged emissions of all three runs is less than the applicable limit.

Condition 19 of permit N-238-10-10 ensures compliance

Section 6.4 lists the source testing requirements for asphalt/concrete plants. Since this facility is not an asphalt or concrete plant, the requirements of this section do not apply.

Section 7.1 lists the dates that dryers are required to be in compliance with Rule 4309. The dryer at this facility is required to be in compliance with Rule 4309 by December 1, 2008. As demonstrated in the above rule analysis, the dryer at the facility is in compliance with Rule 4309.

**D District Rule 4703 – Stationary Gas Turbines**

The facility has one unit subject to this rule: N-238-18.

**N-238-18 2800 kW Gas Turbine and Waste Heat Boiler**

The purpose of this rule is to limit NO<sub>x</sub> emissions from stationary gas turbine systems. The provisions of this rule apply to all stationary gas turbine systems, which are subject to District permitting requirements and with ratings equal to or greater than 0.3 megawatt (MW) and/or a maximum heat input rating of more than 3,000,000 Btu per hour, except as provided in Section 4.0. This permit unit is subject to this rule since its rated capacity is 2.8 MW.

Section 5.1 requires that NO<sub>x</sub> emissions concentrations measured for compliance with Section 5.0 be averaged over a three-hour period, using consecutive 15-minute sampling periods in accordance with either the applicable test method in Section 6.4 or if continuous emission monitors are used, all applicable requirements of 40 CFR Part 60, as detailed in Section 6.2. Any variations from these measurement requirements are subject to APCO and EPA approval prior to implementation.

Section 5.1.1 specifies the Tier 1 NO<sub>x</sub> compliance limits. As discussed below, the stationary gas turbine operates in compliance with the Tier 3 NO<sub>x</sub> emission limits specified in Section 5.1.3. The Tier 3 NO<sub>x</sub> emission limits are more stringent than the Tier 1 NO<sub>x</sub> emissions limits. Therefore, compliance with the Tier 1 NO<sub>x</sub> emission limits will be demonstrated with compliance of the Tier 3 NO<sub>x</sub> emission limits and no further discussion is required.

Section 5.1.2 specifies the Tier 2 NO<sub>x</sub> compliance limits for all stationary gas turbines. As discussed below, the stationary gas turbine operates in compliance with the Tier 3 NO<sub>x</sub> emission limits specified in Section 5.1.3. The Tier 3 NO<sub>x</sub> emission limits are more stringent than the Tier 2 NO<sub>x</sub> emissions limits. Therefore, compliance with the Tier 2 NO<sub>x</sub> emission limits

will be demonstrated with compliance of the Tier 3 NO<sub>x</sub> emission limits and no further discussion is required

The deadline for Tier 3 compliance has passed therefore, the facility is now subject to Tier 3 emission

Section 5 1 3 specifies the Tier 3 NO<sub>x</sub> compliance limits for all stationary gas turbines and states that the owner or operator of any stationary gas turbine system shall not operate such unit under load conditions, except as allowed by Section 5 3 which results in the measured emissions concentration exceeding the applicable emissions limits shown in Table 5-3 of Rule 4703, according to the Tier 3 Compliance Schedules listed in Section 7 3

<b>Table 5-3 Rule 4703 Tier 3 NO<sub>x</sub> Compliance Limits</b>		
<b>Turbine Rating (MW)</b>	<b>NO<sub>x</sub> Compliance Limit, ppmvd at 15% O<sub>2</sub></b>	
	<b>Gas Fuel</b>	<b>Liquid Fuel</b>
a) Less than 3 MW	9	25
b) 3 MW to 10 MW pipeline gas turbine	8 during steady state and 12 during non-steady state	25
c) 3 MW to 10 MW and permit condition for less than 877 hrs/yr operation and not listed above	9	25
d) 3 MW to 10 MW and permit condition for 877 hrs/yr operation or greater and not listed above	5	25
e) Greater than 10 MW simple cycle and permit condition for no greater than 200 hrs/yr operation except as provided in Section 5 1 3 3	25	42
f) Greater than 10 MW Simple cycle and permit condition for greater than 200 hrs/yr operation but no greater than 877 hrs/yr operation	5	25

This permit unit is subject to 'Less than 3 MW " Compliance with the NO<sub>x</sub> emissions limits is satisfied by Condition 8 on the proposed permit

Section 5 2 requires that the owner or operator of any stationary gas turbine system shall not operate such unit under load conditions, except as allowed by Section 5 3 which results in the measured CO emissions concentration exceeding the compliance limits listed below

<b>Rule 4703 Gas Turbine CO Emission Limit</b>	
<b>Stationary Gas Turbine</b>	<b>CO Emission Limit (ppmv @ 15% O<sub>2</sub>)</b>
Units not identified below	200
General Electric Frame 7	25
General Electric Frame 7 with Quiet Combustors	52
< 2 0 MW Solar Saturn gas turbine powering a centrifugal compressor	250

This permit is subject to "Units not identified below " Compliance with the CO emission limit is satisfied by Condition 6 on the proposed permit

Section 5 3 requires that on and after the date a unit is required, pursuant to Section 7 0, to be in compliance with the emission limits requirements of Section 5 1 or Section 5 2, the applicable emission limits of Sections 5 1 and 5 2 shall not apply during a transitional operation period (bypass transition period, primary re-ignition period reduced load period, startup or shutdown) provided an operator complies with the requirements specified below

- The duration of each startup or each shutdown shall not exceed two hours except as provided in section 5 3 3 below
- For each bypass transition period the requirements specified in Section 3 2 shall be met
- For each primary re-ignition period the requirements specified in Section 3 20 shall be met
- Each reduced load period shall not exceed one hour
- The emission control system shall be in operation and emissions shall be minimized insofar as technologically feasible during each transitional operation period
- An operator may submit an application to allow more than two hours for each startup or each shutdown or more than one hour for each reduced load period provided the operator meets all of the conditions specified in the rule

Compliance is satisfied by Conditions 10 through 13 on the proposed permit

Section 6 1 states that the owner or operator of any existing stationary gas turbine system shall submit to the APCO an emissions control plan of all

actions, including a schedule of increments of progress, which will be taken to comply with the requirements of the applicable NO<sub>x</sub> Compliance Limit in Section 5 0 and Compliance Schedule in Section 7 0

The facility currently complies with Tier 3 emissions requirements. Therefore, this requirement has already been satisfied and no further discussion is required.

Section 6 2 1 states that except for units subject to Section 6 2 3, for turbines with exhaust gas NO<sub>x</sub> control devices, the owner or operator shall either install, operate, and maintain continuous emissions monitoring equipment for NO<sub>x</sub> and oxygen as identified in Rule 1080 (Stack Monitoring), or install and maintain APCO-approved alternate monitoring. This unit does not have an exhaust gas control device. Therefore, this section does not apply.

Section 6 2 2 requires that except for units subject to Section 6 2 3, for turbines without exhaust-gas NO<sub>x</sub> control devices and without continuous emissions monitoring equipment, the owner or operator shall monitor operational characteristics recommended by the turbine manufacturer or emission control system supplier, and approved by the APCO.

Section 6 2 3 applies to units greater than 10 MW. Therefore, this section does not apply and the unit is instead subject to Section 6 2 2. Compliance with Section 6 2 2 is assured with unit-specific Conditions 3 through 6 on the proposed permit.

Section 6 2 4 requires that the owner or operator shall maintain all records for a period of five years from the date of data entry and shall make such records available to the APCO upon request. Condition 36 of the proposed permit ensures compliance.

Section 6 2 5 requires that the owner or operator shall submit to the APCO, before issuance of the Permit to Operate, information correlating the control system operating parameters to the associated measured NO<sub>x</sub> output. This information may be used by the APCO to determine compliance when there is no continuous emission monitoring system for NO<sub>x</sub> available or when the continuous emission monitoring system is not operating properly. This is a startup requirement for which compliance has already been assured. No additional conditions are required.

Section 6 2 6 requires that the owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local time start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used (liquid/gas). Condition 34 of the proposed permit ensures compliance.

Section 6 2 7 requires that the owner or operator shall maintain a stationary gas turbine system operating log for units exempt under Section 4 2 that includes, on a daily basis the actual local start-up time and stop time, total hours of operation and cumulative hours of operation to date for the calendar year This unit is not exempt under Section 4 2 Therefore, this section is not applicable

Section 6 2 8 requires that the operator performing start-up or shutdown of a unit shall keep records of the duration of start-up or shutdown Condition 10 of the proposed permit ensures compliance

Section 6 3 1 requires annual source testing for exhaust gas NO<sub>x</sub> and CO concentrations Condition 10 of the proposed permit ensures compliance

Section 6 3 2 requires biennial source testing for gas turbine systems operating less than 877 hours per year This permit unit operates more than 877 hours per year and is therefore not applicable to this requirement

Section 6 3 3 requires that the owner or operator of any unit with an intermittently operated auxiliary burner shall demonstrate compliance with the auxiliary burner both on and off This unit does not have an auxiliary burner Therefore this section does not apply

Sections 6 4 1 through 6 4 3 requires that the following test measures shall be used unless otherwise approved by the APCO and EPA

- Oxides of nitrogen emissions for compliance tests shall be determined by using EPA Method 7E or EPA Method 20
- Carbon monoxide emissions for compliance tests shall be determined by using EPA Test Methods 10 or 10B
- Oxygen content of the exhaust gas shall be determined by using EPA Methods 3 3A or 20

Conditions 16 17, and 18 of the proposed permit ensure compliance

Sections 6 4 4 and 6 4 5 list the test methods for determining the HHV and LHV of fuels Since the permit unit is already in compliance with Tier 3 limits and HHV or LHV is only required for Tier 1 emission limits, HHV and LHV measurements are not required

Section 6 5 applies only to exempt and emergency standby units This unit does not fall under either category Therefore, this section does not apply



Section 7.0 lists the compliance schedule for stationary gas turbines. As previously discussed in Section 5.1 above, this permit unit already complies with Tier 3 NO<sub>x</sub> requirements. No further discussion is required.

**E 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines**

40 CFR Part 60 Subpart GG applies to all stationary gas turbines with a heat input greater than 10.7 gigajoules per hour (10.2 MMBtu/hr) that commence construction, modification or reconstruction after 10/03/77. Therefore, this subpart applies to the gas turbine, unit N-238-18.

NO<sub>x</sub> requirement from 60.332

Section 60.332(c) requires that a stationary gas turbine with a heat input rate greater than 10 MMBtu/hr but less than or equal to 100 MMBtu/hr shall comply with the NO<sub>x</sub> emission limit calculated using the following equation:

$$STD = 0.0150 \frac{(14.4)}{Y} + F \quad \text{where}$$

STD = allowable ISO corrected NO<sub>x</sub> emission concentration in % by volume @ 15% O<sub>2</sub> on dry basis

Y = Manufacturer's rated heat rate at manufacturer's rated load (kJ/w-hr) or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The Y shall not exceed 14.4 kJ/w-hr.

F = NO<sub>x</sub> emission allowance for fuel-bound nitrogen

For this gas turbine unit

Heat input rate = 14,594 Btu/kW-hr (per turbine manufacturer)

$$Y = \left( 14,594 \frac{\text{Btu}}{\text{kW-hr}} \right) \times \left( \frac{1 \text{ kJ}}{0.9478 \text{ Btu}} \right) \times \left( \frac{1 \text{ kW}}{1,000 \text{ w}} \right) = 15.4 \frac{\text{kJ}}{\text{w-hr}}$$

Since Y exceeds 14.4 kJ/w-hr, Y is set equal to 14.4 kJ/w-hr.

F = 0, for conservative calculations

$$STD = 0.0150 \frac{(14.4)}{14.4} + 0 = 0.015 \% \text{ by volume @ } 15\% \text{ O}_2 \text{ (150 ppmv @ } 15\% \text{ O}_2)$$

The unit is required to achieve NO<sub>x</sub> emissions of 35 ppmv @ 15% O<sub>2</sub>, which is significantly lower than the NO<sub>x</sub> emissions limit of Section 60 332(c) Condition 9 on the proposed permit ensures compliance

SO<sub>x</sub> requirement from 60 333(a)

Section 60 333 (a) prohibits the discharge of any gases, which contain sulfur dioxide in excess of 0 015 percent by volume at 15 percent oxygen and on a dry basis

Previous District-issued Title V permits have generally used a sulfur content of 5 gr/100 scf of gas as limited by General Order 58-B of the PUC which is equivalent to 0 017% by weight But natural gas suppliers in California (PG&E, SOCal Gas etc) regulate the quality of the gas as following

- Pacific Gas & Electric (PG&E) has a transportation agreement to deliver gas with a maximum total sulfur content of 1 0 gr/100 scf (actual 0 3 to 0 5 gr/100 scf, based on source testing)
- Southern California Edison's (SoCal Gas) Standard Specifications for Natural Gas and Substitute Fuel Gases (from SoCal Gas Company Procedures 12/26/85) has a recommended total sulfur limit of 0 75 gr/100 scf
- Mojave Gas Company's FERC Gas Tariff General Terms and Conditions (12/30/91) requires delivered natural gas to contain no more than 0 75 gr/100 scf total sulfur

The California Air Resource Board (ARB), in their document Guidance for Power Plant Siting (Stationary Source Div 6/99) also determined that 1 0 gr S/100 scf is the sulfur content of gas supplied by a utility regulated by the Public Utilities Commission (PUC)

All natural gas that is regulated enters the PUC pipeline for distribution to consumers and is tested to assure that its composition conforms to above standards Therefore, total sulfur content of 1 0 gr/100 scf is consistent with quality of gas supplied by the utilities

Compliance is expected as shown by the following calculations at 1 grain of total sulfur per 100 standard cubic feet of gas, assuming all sulfur is converted to SO<sub>2</sub>

$$\begin{aligned} \%S(\text{lb/lbNG}) &= \left( \frac{1 \text{ gr}}{100 \text{ scf}} \right) \left( \frac{1 \text{ lb}}{7000 \text{ gr}} \right) \left( \frac{24.5 \text{ L}}{\text{mol NG}} \right) \left( \frac{1 \text{ mol}}{16 \text{ g}} \right) \left( \frac{454 \text{ g}}{1 \text{ lb}} \right) \left( \frac{0.035 \text{ scf}}{1 \text{ L}} \right) (100) \\ &= 0.00348\% \text{ sulfur by weight} \end{aligned}$$

$$\begin{aligned} \text{lb SO}_2/\text{scf gas} &= (0.0000348)(1 \text{ lb}/23.8 \text{ scf gas})(64 \text{ lb SO}_2/32 \text{ lb S}) \\ &= 2.92 \text{ E-6 lb SO}_2/\text{scf gas} \end{aligned}$$

$$\text{lb SO}_2/V_{\text{exhaust}} = (\text{lb SO}_2/\text{scf gas}) - (\text{F factor}) (\text{Btu content of natural gas})$$

$$\left( \frac{\text{lb SO}_2}{V_{\text{exhaust}}} \right) = \frac{\left( 2.92 \times 10^{-6} \frac{\text{lb SO}_2}{\text{scf gas}} \right) \left( \frac{10^6 \text{ Btu}}{\text{MMBtu}} \right)}{\left( 8710 \frac{\text{dscf}}{\text{MMBtu}} \right) \left( 1000 \frac{\text{Btu}}{\text{scf}} \right)} = 3.35 \times 10^{-7} \frac{\text{lb SO}_2}{\text{dscf exhaust}}$$

$$V_{\text{SO}_2}/V_{\text{exhaust}} = nRT/P$$

where

$$n = \text{moles SO}_2 = (3.35 \times 10^{-7} \text{ lb SO}_2/\text{dscf exhaust}) / (64 \text{ lb SO}_2/\text{lb-mol})$$

$$R = \text{universal gas constant} = 10.73 \text{ psi-ft}^3/\text{lb-mol-R}$$

$$T = \text{standard temperature} = 60 \text{ F} = 520 \text{ R}$$

$$P = \text{standard pressure} = 14.7 \text{ psi}$$

$$\begin{aligned} \text{Therefore, } \left( \frac{V_{\text{SO}_2}}{V_{\text{exhaust}}} \right) &= \frac{\left( \frac{3.35 \times 10^{-6} \text{ lb SO}_2}{\text{dscf exhaust}} \right) \left( \frac{10.73 \text{ psi-ft}^3}{\text{lb-mol-R}} \right) (520 \text{ }^\circ\text{R})}{\left( \frac{64 \text{ lb SO}_2}{\text{lb-mol}} \right) (14.7 \text{ psi})} = 1.99 \times 10^{-6} \frac{\text{dscf}}{\text{dscf exhaust}} \\ &= 1.99 \text{ ppmv dry} \end{aligned}$$

Diluting it to 15% O<sub>2</sub>

$$\text{ppmv @ 15\% O}_2 = \text{ppmv dry} \times \left( \frac{20.9}{20.9 - 15} \right) = 0.56 \text{ ppmv}$$

$$0.56 \text{ ppmv} \ll 150 \text{ ppmv}$$

Condition 5 on ensures continued compliance with this requirement

SO<sub>x</sub> requirement from 60.333(b)

Section 60.333 (b) also prohibits the owner or operator from burning in any stationary gas turbine any fuel, which contains sulfur in excess of 0.8 percent by weight

Natural gas with fuel sulfur content of 1.0 gr/100 scf or less assures compliance with the 0.8% sulfur by weight limit of New Source Performance Standard Subpart GG - 40 CFR Subpart 60.333(b). This standard can be converted to an expression of weight percent of sulfur in the natural gas (ng)

$$\begin{aligned} \%S(\text{lb}/\text{lbNG}) &= \left( \frac{1 \text{ gr}}{100 \text{ scf}} \right) \left( \frac{1 \text{ lb}}{7000 \text{ gr}} \right) \left( \frac{24.5 \text{ L}}{\text{mol NG}} \right) \left( \frac{1 \text{ mol}}{16 \text{ g}} \right) \left( \frac{454 \text{ g}}{1 \text{ lb}} \right) \left( \frac{0.035 \text{ scf}}{1 \text{ L}} \right) (100) \\ &= 0.00348\% \text{ sulfur by weight} \end{aligned}$$

Thus natural gas with fuel sulfur content of 1.0 gr/100 scf or less assures compliance with the 0.8% sulfur by weight limit of New Source Performance Standard, Subpart GG - 40 CFR Subpart 60.333(b)

Condition 5 ensures continued compliance with this requirement

Monitoring of Operations from 60.334

Section 60.334(a) requires the owner/operator of any stationary gas turbine using water or steam injection to control NO<sub>x</sub> emissions to install, calibrate, maintain and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel fired. Condition 3 ensures continued compliance with this requirement.

Section 60.334(c) allows the use of previously approved NO<sub>x</sub> monitoring systems for units that do not use steam or water injection to control NO<sub>x</sub> emissions. This permit unit uses water injection. Therefore this section is not applicable.

Section 60.334(d, e, and f) contain requirements for gas turbines that commenced construction after July 8, 2004. These requirements are not applicable, because this gas turbine commenced construction prior to July 8, 2004.

Section 60.334(h) requires monitoring of sulfur content and nitrogen content of the fuel being fired in the turbine. In determining the sulfur and nitrogen content of the fuel, Section 60.335(e) allows the analysis to be performed by the owner/operator, service contractor, fuel vendor, or any other qualified agency. Conditions 22, 23, and 24 ensure continued compliance with this requirement.

Section 60.334(j) requires the owner/operator to submit reports of excess emissions and monitor downtime in accordance with §60.7(c) for all periods including startup, shutdown, and malfunction. Conditions 31 and 32 ensure continued compliance with this requirement.

Test Methods and Procedures from 60.335

Section 60.335(b) requires that the monitoring device of Section 60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with Section 60.332 at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer. Conditions 3 and 32 ensure continued compliance with this requirement.

Section 60 335(c) provides alternatives to the reference methods and procedures specified in this section. This is not applicable, as the affected units in this project do not use these alternatives.

**F 40 CFR Part 64 – CAM**

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

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

Major Source Thresholds (4/21/11 Revision of Rule 2201)

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

The facility exceeds the Major Source Threshold for NOx and VOC emissions, therefore, CAM potentially applies to all emissions units for all criteria pollutants.

1 N-238-1-6 Corn Receiving and Storage Operation With a Baghouse and Bin Vent Filter

The following conditions were approved during a previous Title V action (Project #N-1083751) and assure compliance with the CAM requirements:

- The owner/operator shall check for visible emissions on a daily basis. If any particulate matter emissions are visible, the baghouse and bin vent filter shall be inspected for any tears, abrasions or holes in the fabric. Any defective or damaged material shall be repaired or replaced. [District Rules 4201 4202 2520 Section 9 3 2 and 40 CFR part 64]
- Visible emissions from each baghouse shall be evaluated using EPA Method 22 for a period of at least 6 minutes at least once during each day the baghouse is operated. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA

Method 9 shall be conducted [District Rule 2520, 9 3 2 and 40 CFR Part 64]

- Baghouse and bin vent filter shall be inspected at least quarterly when the unit is not in operation for tears scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed [District Rule 2520, 9 3 2 and 40 CFR part 64]
- Records of baghouse and bin vent filter maintenance, inspections and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64]
- The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64 7 [40 CFR Part 64]
- The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 [40 CFR Part 64]
- If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64 7(d)(2) the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64]
- Differential operating pressure shall be monitored and recorded on each day that the baghouse operates [District Rule 2420 and 40 CFR Part 64]

### 2 N-238-2-4 Corn Cleaning Operation With Baghouses and Bin Vent Filter

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC Therefore this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO and VOC

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of baghouses and a bin vent filter

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140 000 lb-PM<sub>10</sub>/year Therefore this permit is not subject to CAM requirements

### 3 N-238-8-3 Gluten Milling, Transfer, and Storage With a Dust Collector

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC Therefore this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of a baghouse

As calculated in Project N-1083751 the pre-control PM10 emissions do not exceed the major source threshold of 140,000 lb-PM10/year Therefore this permit is not subject to CAM requirements

4 N-238-9-6 Gluten Loadout System With a Baghouse

This permit unit does not have emissions limits for NO<sub>x</sub> SO<sub>x</sub>, CO, and VOC Therefore this permit unit is not subject to CAM for NO<sub>x</sub> SO<sub>x</sub> CO and VOC

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of a baghouse

As calculated in Project N-1083751 the pre-control PM10 emissions do not exceed the major source threshold of 140 000 lb-PM10/year Therefore this permit is not subject to CAM requirements

5 N-238-10-10 21 MMBtu/hr Starch Dryer With Two Cyclones Served by Two Gas Scrubbers

The following conditions were approved during a previous Title V action (Project #N-1083751) and assure compliance with the CAM requirements

- Each scrubber shall be equipped with an operational differential pressure gauge to measure the pressure drop across the scrubber (i.e. outlet and inlet sections of the scrubber) [District Rule 2201 40 CFR Part 64]
- The differential pressure across each scrubber shall not exceed 10.0 inches of water column Upon detecting any excursion, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2520, 40 CFR Part 64]
- Each scrubber shall be equipped with an operational liquid flow meter [40 CFR Part 64]
- For each scrubber the liquid recirculation flow rate shall not be less than 83 gallons per minute (equivalent to 3 gpm/1,000 cfm for each fan rated at 27,500 cfm) Upon detecting any excursion the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2201 40 CFR Part 64]
- Scrubber liquid recirculation rate (gpm) through each scrubber, and differential pressure across each scrubber (inches of water column) shall be observed and recorded at least once a day while the dryer is in operation The records shall include date of inspection, identification of the equipment identification of the individual performing the inspection, and the corrective action taken [District Rule 2520, 9 4 2 and 40 CFR Part 64]

- The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 for the scrubbers [40 CFR Part 64]
- The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9 for the scrubbers [40 CFR Part 64]
- If the District or EPA determines per 40 CFR 64.7(d)(2) that a Quality Improvement Plan is required, the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8 [40 CFR Part 64]
- All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rules 1070.2520.9.4.2 and 4309 and 40 CFR Part 64]

6 N-238-11-4 Starch Transfer and Storage Served by a Dust Collector

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC.

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of a baghouse.

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this permit is not subject to CAM requirements.

7 N-238-12-3 Bulk Starch Loadout Served by a Dust Collector

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC.

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of a baghouse.

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this permit is not subject to CAM requirements.

8 N-238-13-7 Germ Dryer Served by a Cyclone, a Particulate Scrubber, and a SO<sub>x</sub> Scrubber

The following conditions were approved during a previous Title V action (Project #N-1083751) and assure compliance with the CAM requirements:

- A minimum liquid to gas ratio of 4 gpm per 1,000 cfm shall be provided for each scrubber. Upon detecting any excursion, the permittee shall



investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2201 and 40 CFR part 64]

- The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 [40 CFR Part 64]
- The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9 [40 CFR Part 64]
- If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8 [40 CFR Part 64]
- Records of the PM<sub>10</sub> particulate scrubber liquid flow rate shall be observed and recorded daily during operation of this unit. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9.4.2 and 40 CFR part 64]
- All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520, 9.4.2 and 40 CFR part 64]

#### 9 N-238-14-3 Germ Transfer and Storage Served by a Baghouse

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC.

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of a baghouse.

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this permit is not subject to CAM requirements.

#### 10 N-238-15-3 Bulk Germ Loadout

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

#### 11 N-238-16-3 Filter-Aid Receiving and Storage Served by a Baghouse

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC.

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of a baghouse.

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140 000 lb-PM<sub>10</sub>/year Therefore, this permit is not subject to CAM requirements

12 N-238-17-3 Carbon Receiving and Storage Served by a Baghouse

This permit unit does not have emissions limits for NO<sub>x</sub> SO<sub>x</sub>, CO, and VOC Therefore this permit unit is not subject to CAM for NO<sub>x</sub> SO<sub>x</sub> CO and VOC

This unit may be subject to CAM for PM<sub>10</sub> since there are PM limits and the unit has add-on controls in the form of a baghouse

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140 000 lb-PM<sub>10</sub>/year Therefore, this permit is not subject to CAM requirements

13 N-238-18-7 2800 kW Gas Turbine and a Delta Waste Heat Boiler

This permit unit does not have an add-on control device for any pollutant Therefore, the permit unit is not subject to CAM

14 N-238-19-7 12,000 Gallon Aboveground Salt Slurry Storage Tank

This permit unit does not have an add-on control device for any pollutant Therefore the permit unit is not subject to CAM

15 N-238-24-7 First Grind Overflow Tank Served by a SO<sub>x</sub> Scrubber and a Biofilter (The Control Equipment Also Serves N-238-33)

This permit unit does not have emissions limits for NO<sub>x</sub> PM<sub>10</sub> and CO Therefore this permit unit is not subject to CAM for NO<sub>x</sub> PM<sub>10</sub> and CO

This unit may be subject to CAM for SO<sub>x</sub> and VOC since there are SO<sub>x</sub> and VOC emissions limits and the unit has add-on controls for these two pollutants in the form of a SO<sub>x</sub> scrubber and VOC biofilter

As calculated in Project N-1083751 the pre-control SO<sub>x</sub> emissions do not exceed the major source threshold of 140 000 lb-SO<sub>x</sub>/year Therefore this permit is not subject to CAM requirements

Combined VOC emissions for units -24 and -33 are limited to 0.33 lb-VOC/hr The manufacturer of the biofilter has verified a control efficiency of 96.3%

Uncontrolled VOC emissions are calculated as follows

$$[0.33 \text{ lb/hr} - (1 - 0.963)] \times 24 \text{ hr/day} \times 365 \text{ day/yr} = 78,130 \text{ lb-VOC/yr}$$

This permit is subject to CAM for VOC since there is a VOC limit, it has add-on controls in the form of a biofilter, and the pre-control VOC potential to emit is greater than the major source threshold of 20,000 pounds VOC/year as shown above

In order to determine if a 15-minute monitoring interval is required, we will determine if post-control emissions also exceed the Major Source threshold for VOC emissions

$$0.33 \text{ lb/hr} \times 24 \text{ hr/day} \times 365 \text{ day/yr} = 2,891 \text{ lb-VOC/yr}$$

Since the post-control annual emissions do not exceed the Major Source threshold for VOC of 20,000 lb/year a once-daily monitoring interval is sufficient to determine compliance with CAM. The following conditions were approved during a previous Title V action (Project #N-1083751) and assure compliance with CAM

- The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District Rule 2201 and 40 CFR Part 64]
- A minimum liquid to gas ratio of 4 gpm per 1,000 cfm shall be provided for each scrubber [District Rule 2201 and 40 CFR Part 64]
- If the liquid to gas ratio of the scrubber is less than 4 gpm per 1,000 cfm during operation the permittee shall correct the liquid to gas ratio to a minimum of 4 gpm per 1,000 cfm as soon as possible but no longer than 1 hour of operation after detection. If the liquid to gas ratio continues to be less than 4 gpm per 1,000 cfm after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established and resume monitoring procedures [40 CFR Part 64]
- During operation the biofilter temperature shall not exceed 110 degrees F and shall not be less than 60 degrees F [40 CFR part 64]
- The temperature of the air flow through the biofilter media shall be monitored daily during operation [40 CFR part 64]
- The temperature gauge (probe) monitoring the air flow through the biofilter media shall be maintained per manufacturer's recommendations [40 CFR part 64]
- Records of the SO<sub>x</sub> scrubber liquid flow rate shall be observed and recorded daily during operation of this unit. The records shall include identification of the equipment, date of inspection, corrective action taken

and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR Part 64]

- Records of the biofilter temperature shall be observed and recorded daily, during operation of this unit. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64]
- The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 for the scrubbers [40 CFR Part 64]
- If the District or EPA determines per 40 CFR 64 7(d)(2) that a Quality Improvement Plan is required the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64]
- All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520, 9 4 2 and 40 CFR part 64]

16 N-238-25-5 Gluten Dewatering Filter and Vacuum Systems With a SO<sub>x</sub> Scrubber on the Exhaust Stream

This permit unit does not have emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, and CO. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, and CO.

This permit unit has an emissions limit for VOC, but it does not have an add-on control for VOC. Therefore, this permit unit is not subject to CAM for VOC.

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this permit is not subject to CAM requirements.

17 N-238-29-4 Sulfurous Acid Plant Consisting of An Elemental Sulfur Burner and Two Absorbers Vented to a Scrubber with a Mist Eliminator, Twelve Steep Tanks and One Draw Tank Vented to a Scrubber Serving the Acid Plant

This permit unit does not have emissions limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC.

This unit may be subject to CAM for SO<sub>x</sub> since there is a SO<sub>x</sub> emissions limit and the unit has an add-on control for SO<sub>x</sub> in the form of a scrubber.

As calculated in Project N-1083751, the pre-control SO<sub>x</sub> emissions do not exceed the major source threshold of 140,000 lb-SO<sub>x</sub>/year. Therefore, this permit is not subject to CAM requirements.

18 N-238-30-3 Soda Ash Receiving and Storage with One 60,000 Gallon Storage Tank Served by a Wet Scrubber

This permit unit does not have emissions limits for NO<sub>x</sub>, SO<sub>x</sub>, CO and VOC. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, CO and VOC.

This unit may be subject to CAM for PM<sub>10</sub> since there is a PM<sub>10</sub> limit and the unit has an add-on control in the form of a wet scrubber.

As calculated in Project N-1083751, the pre-control PM<sub>10</sub> emissions do not exceed the major source threshold of 140,000 lb-PM<sub>10</sub>/year. Therefore, this permit is not subject to CAM requirements.

19 N-238-33-5 Gluten Dryer Served by a Cyclone, a Particulate Matter Scrubber, a SO<sub>x</sub> Scrubber, and a Biofilter (The Control Equipment Also Serves N-238-24)

This permit unit does not have emissions limits for NO<sub>x</sub> and CO. Therefore, this permit unit is not subject to CAM for NO<sub>x</sub> and CO.

This unit may be subject to CAM for SO<sub>x</sub>, PM<sub>10</sub>, and VOC since there are SO<sub>x</sub>, PM<sub>10</sub> and VOC emissions limits and the unit has add-on controls for these three pollutants in the form of a SO<sub>x</sub> scrubber, a PM<sub>10</sub> scrubber, and a VOC biofilter.

As calculated in Project N-1083751, the pre-control SO<sub>x</sub> emissions do not exceed the major source threshold of 140,000 lb-SO<sub>x</sub>/year. Therefore, this permit is not subject to CAM requirements.

Combined VOC emissions for units -24 and -33 are limited to 0.33 lb-VOC/hr. The manufacturer biofilter has verified a control efficiency of 96.3%.

Uncontrolled VOC emissions are calculated as follows:

$$[0.33 \text{ lb/hr} - (1 - 0.963)] \times 24 \text{ hr/day} \times 365 \text{ day/yr} = 78.130 \text{ lb-VOC/yr}$$

This permit is subject to CAM for VOC since there is a VOC limit, it has add-on controls in the form of a biofilter, and the pre-control VOC potential to emit is greater than the major source threshold of 20,000 pounds VOC/year as shown above.

In order to determine if a 15-minute monitoring interval is required, we will determine if post-control emissions also exceed the Major Source threshold for VOC emissions.

0 33 lb/hr x 24 hr/day x 365 day/yr = 2,891 lb-VOC/yr

Since the post-control annual emissions for VOC do not exceed the Major Source threshold a once-daily monitoring interval is sufficient to determine compliance with CAM

Additionally this permit is subject to CAM for PM10 since there is a PM10 limit it has add-on controls in the form of a particulate scrubber, and the pre-control PM10 potential to emit is greater than the major source threshold of 140,000 pounds PM<sub>10</sub>/year as shown above The following conditions were approved during a previous Title V action (Project #N-1083751) and assure compliance with CAM for VOC and PM10

- The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District Rule 2201 and 40 CFR Part 64]
- A minimum liquid to gas ratio of 4 gpm per 1,000 cfm shall be provided for each scrubber [District Rule 2201 and 40 CFR Part 64]
- If the liquid to gas ratio of the scrubber is less than 4 gpm per 1 000 cfm during operation, the permittee shall correct the liquid to gas ratio to a minimum of 4 gpm per 1,000 cfm as soon as possible but no longer than 1 hour of operation after detection If the liquid to gas ratio continues to be less than 4 gpm per 1 000 cfm after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour The permittee must then correct the violation show compliance has been re-established, and resume monitoring procedures [40 CFR Part 64]
- During operation the biofilter temperature shall not exceed 110 degrees F and shall not be less than 60 degrees F [40 CFR part 64]
- The temperature of the air flow through the biofilter media shall be monitored daily during operation [40 CFR part 64]
- The temperature gauge (probe) monitoring the air flow through the biofilter media shall be maintained per manufacturer's recommendations [40 CFR part 64] Y
- Records of the SOx scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2 and 40 CFR Part 64]
- Records of the PM10 particulate scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2 and 40 CFR part 64]
- Records of the biofilter temperature shall be observed and recorded daily, during operation of this unit The records shall include identification of the

equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64]

- The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64 7 for the scrubbers [40 CFR Part 64]
- The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 for the scrubbers [40 CF Part 64]
- If the District or EPA determines per 40 CFR 64 7(d)(2) that a Quality Improvement Plan is required the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64]
- All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2 and 40 CFR part 64]

## **IX PERMIT SHIELD**

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

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

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore the permit shields as granted in Model General Permit Template is included as conditions 39 and 40 of the facility-wide requirements (N-238-0-3).

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

The applicant is not proposing any new permit shields.

## **X PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit

## **XI ATTACHMENTS**

- A Draft Renewed Title V Operating Permit
- B Previous Title V Operating Permit
- C Detailed Facility List

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY N 238 0 3

EXPIRATION DATE 03/31/2014

## FACILITY-WIDE REQUIREMENTS

- 1 {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible but no later than one hour after its detection unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary [District Rule 1100 6 1 County Rules 110 (Fresno, Stanislaus San Joaquin), 109 (Merced) 113 (Madera) and 111 (Kern Tulare Kings)] Federally Enforceable Through Title V Permit
- 2 {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition The breakdown notification shall include a description of the equipment malfunction or failure the date and cause of the initial failure the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations [District Rule 1100 7 0 County Rules 110 (Fresno, Stanislaus San Joaquin) 109 (Merced) 113 (Madera) and 111 (Kern Tulare Kings)] Federally Enforceable Through Title V Permit
- 3 {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds shall provide the District annually with a written statement in such form and at such time as the District prescribes showing actual emissions of nitrogen oxides and reactive organic compounds from that source [District Rule 1160 5 0] Federally Enforceable Through Title V Permit
- 4 {4365} Any person building altering or replacing any operation article machine equipment or other contrivance the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07) [District Rule 2010, 3 0 and 4 0, and 2020] Federally Enforceable Through Title V Permit
- 5 {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA) including provisions to limit potential to emit are enforceable by the EPA and Citizens under the CAA Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations and is grounds for enforcement action for permit termination revocation reopening and reissuance or modification or for denial of a permit renewal application [District Rules 2070 7 0 2080 and 2520 9 9 1 and 9 13 1] Federally Enforceable Through Title V Permit
- 6 {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District [District Rule 2031] Federally Enforceable Through Title V Permit
- 7 {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District [District Rule 2040] Federally Enforceable Through Title V Permit
- 8 {4369} The operator shall maintain records of required monitoring that include 1) the date place and time of sampling or measurement 2) the date(s) analyses were performed 3) the company or entity that performed the analysis 4) the analytical techniques or methods used 5) the results of such analysis and 6) the operating conditions at the time of sampling or measurement [District Rule 2520, 9 4 1] Federally Enforceable Through Title V Permit
- 9 {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement or report Support information includes copies of all reports required by the permit and for continuous monitoring instrumentation all calibration and maintenance records and all original strip chart recordings [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit

FACILITY WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name INGREDION INCORPORATED  
Location 1021 INDUSTRIAL DR STOCKTON CA 95206  
N 238-0-3 F b 25 2014 2 42PM YOSHIMUJ

- 10 {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520 9 5 1] Federally Enforceable Through Title V Permit
- 11 {4372} Deviations from permit conditions must be promptly reported including deviations attributable to upset conditions as defined in the permit. For the purpose of this condition promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10 0 of District Rule 2520 (6/21/01). [District Rules 2520, 9 5 2 and 1100 7 0] Federally Enforceable Through Title V Permit
- 12 {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9 7] Federally Enforceable Through Title V Permit
- 13 {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9 8 2] Federally Enforceable Through Title V Permit
- 14 {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520 9 8 3] Federally Enforceable Through Title V Permit
- 15 {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9 8 4] Federally Enforceable Through Title V Permit
- 16 {4377} The Permittee shall furnish to the District within a reasonable time any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520 9 8 5] Federally Enforceable Through Title V Permit
- 17 {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9 9] Federally Enforceable Through Title V Permit
- 18 {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520 9 13 2 1] Federally Enforceable Through Title V Permit
- 19 {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9 13 2 2] Federally Enforceable Through Title V Permit
- 20 {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520 9 13 2 3] Federally Enforceable Through Title V Permit
- 21 {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520 9 13 2 4] Federally Enforceable Through Title V Permit

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

- 22 {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater unless specifically exempted by District Rule 4101 (02/17/05) If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition the more stringent visible emission limit shall supersede this condition [District Rule 4101 and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
- 23 {4384} No person shall manufacture blend repackage supply, sell solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District [District Rule 4601 5 1] Federally Enforceable Through Title V Permit
- 24 {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use [District Rule 4601 5 4] Federally Enforceable Through Title V Permit
- 25 {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6 1 and 6 3 (12/17/09) [District Rule 4601 6 1 and 6 3] Federally Enforceable Through Title V Permit
- 26 {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA the permittee shall include a certification of truth accuracy, and completeness by a responsible official [District Rule 2520 9 13 1 and 10 0] Federally Enforceable Through Title V Permit
- 27 {4388} If the permittee performs maintenance on or services repairs or disposes of appliances the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82 Subpart F [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
- 28 {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC) the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82 Subpart B [40 CFR Part 82 Subpart B] Federally Enforceable Through Title V Permit
- 29 {4390} Disturbances of soil related to any construction demolition excavation extraction or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4 0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
- 30 {4391} Outdoor handling storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4 0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
- 31 {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5 0 unless specifically exempted under Section 4 0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
- 32 {4393} Whenever open areas are disturbed or vehicles are used in open areas the facility shall comply with the requirements of Section 5 0 of District Rule 8051 unless specifically exempted under Section 4 0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
- 33 {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4 0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE  
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- 34 {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5 1 1 of District Rule 8071 Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5 1 2 of District Rule 8071 On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area the owner/operator shall comply with the requirements of Section 5 1 3 of District Rule 8071 On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area the owner/operator shall comply with the requirements of Section 5 1 4 of District Rule 8071 All sources shall comply with the requirements of Section 5 0 of District Rule 8071 unless specifically exempted under Section 4 0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004) [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
- 35 {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61 141, shall comply with the applicable inspection notification removal and disposal procedures for asbestos containing materials as specified in 40 CFR 61 145 (Standard for Demolition and Renovation) [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
- 36 {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits including emission limits standards and work practices to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District) The certification shall include the identification of each permit term or condition the compliance status whether compliance was continuous or intermittent the methods used for determining the compliance status and any other facts required by the District to determine the compliance status of the source [District Rule 2520, 9 16] Federally Enforceable Through Title V Permit
- 37 {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months but not greater than 18 months, prior to the permit expiration date [District Rule 2520 5 2] Federally Enforceable Through Title V Permit
- 38 {4399} When a term is not defined in a Title V permit condition the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply [District Rule 2520 9 1 1] Federally Enforceable Through Title V Permit
- 39 {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements Rule 401 (Madera Fresno Kern Kings San Joaquin Stanislaus Tulare and Merced) Rule 110 (Fresno Stanislaus San Joaquin) Rule 109 (Merced) Rule 113 (Madera), Rule 111 (Kern Tulare Kings), and Rule 202 (Fresno Kern Tulare, Kings Madera Stanislaus Merced San Joaquin) A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit
- 40 {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements SJVUAPCD Rules 1100 sections 6 1 and 7 0 (12/17/92) 2010 sections 3 0 and 4 0 (12/17/92) 2031 (12/17/92) 2040 (12/17/92) 2070 section 7 0 (12/17/92), 2080 (12/17/92), 4101 (2/17/05), 4601 (12/17/09) 8021 (8/19/2004) 8031 (8/19/2004), 8041 (8/19/2004), 8051 (8/19/2004), 8061 (8/19/2004) and 8071 (9/16/2004) A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit
- 41 {118} No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]
- 42 Particulate matter (PM) emissions from the entire facility shall not exceed 25 pounds per hour or 250 pounds per day [District Rule 2201] Federally Enforceable Through Title V Permit
- 43 The PM10 limit from the entire facility shall not exceed 200 pounds per day [District Rule 2201] Federally Enforceable Through Title V Permit
- 44 On December 31 2004, the initial Title V permit was issued The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division These reports are due within 30 days after the end of the reporting period [District Rule 2520] Federally Enforceable Through Title V Permit

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



# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N-238-1 6

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

CORN RECEIVING AND STORAGE OPERATION CONSISTING OF RECEIVING PITS VARIOUS CONVEYING EQUIPMENT AND THREE HOPPERS ALL VENTED TO A CARTER-DAY MODEL 376 RF8 BAGHOUSE AND THREE STORAGE BINS EACH EQUIPPED WITH A BIN VENT FILTER THE THIRD STORAGE SILO (#3) IS SERVED BY A DCL INC MODEL BV25 58 112A912Z TO BAGHOUSE

## PERMIT UNIT REQUIREMENTS

- 1 The baghouses shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags Each gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The cleaning frequency and duration for each baghouse shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from each baghouse shall not exceed 0 002 grains/dscf in concentration [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Particulate matter emissions from unloading shall not exceed 0 93 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 Particulate matter emissions from silos 1 2 and 3 shall not exceed 0 93 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 9 The annual quantity of corn received shall not exceed 2 628 000 tons per year, based on a 12-month rolling period [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 The owner/operator shall check for visible emissions on a daily basis If any particulate matter emissions are visible the baghouse and bin vent filter shall be inspected for any tears abrasions or holes in the fabric Any defective or damaged material shall be repaired or replaced [District Rules 4201 4202 2520 Section 9 3 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 11 Visible emissions from each baghouse shall be evaluated using EPA Method 22 for a period of at least 6 minutes at least once during each day the baghouse is operated If visible emissions are observed corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9 3 2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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- 12 Baghouse and bin vent filter shall be inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed [District Rule 2520 9 3 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 13 Visible emissions from baghouse serving the hoppers shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 14 Records of baghouse and bin vent filter maintenance, inspections and repair shall be maintained The records shall include identification of the equipment, date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 15 The permittee shall maintain records of the cumulative amount of corn received based on a 12 month rolling period Records shall be updated at least once per month [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 16 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64 7 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 17 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 18 If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64 7(d)(2) the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 19 Differential operating pressure shall be monitored and recorded on each day that the baghouse operates [District Rule 2420 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 20 All records shall be retained for a minimum of five years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 2 4

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

CORN CLEANING OPERATION WITH THREE DRAG CONVEYORS AND ONE ELEVATOR VENTED TO A BIN FILTER ASPERATED CORN CLEANER TWO HOPPERS AND VARIOUS CONVEYORS VENTED TO A CARTER DAY BAGHOUSE AND ONE CORN CLEANINGS HOPPER VENTED TO A CARTER-DAY BAGHOUSE

## PERMIT UNIT REQUIREMENTS

- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from each baghouse shall not exceed 0 002 grains/dscf [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Particulate matter emissions from the elevator shall not exceed 0 017 pounds in any one hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 Particulate matter emissions from cleaning shall not exceed 0 175 pounds in any one hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Particulate matter emissions from the cleaning silo shall not exceed 0 014 pounds in any one hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 Visible emissions from the baghouse shall be checked quarterly If visible emissions are observed, corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours a visible emissions test using EPA Method 9 shall be conducted within 48 hours [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 10 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 11 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 12 Visible emissions from baghouse serving the conveyors shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

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

- 13 Records of baghouse and bin vent filter maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 14 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 8 3

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

GLUTEN MILLING TRANSFER AND STORAGE SERVED BY A CARTER DAY DUST COLLECTOR TYPE R F

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.036 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the gluten milling, transfer and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 11 Records of dust collector maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 9 6

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

BULK GLUTEN LOADOUT SYSTEM WITH A STATIONARY HOOD AND A W W SLY MODEL XP-10 RETRACTABLE LOADING SPOUT SERVED BY AN ALANCO MODEL 378 RLP-FILTER BAGHOUSE

## PERMIT UNIT REQUIREMENTS

- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 The baghouse shall be equipped with an operational pressure differential gauge to indicate the pressure drop across the bags [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Visible emissions from the baghouse serving the gluten meal loadout operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Material removed from baghouse shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Replacement bags numbering at least 10% of the total number of bags in the baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 All ducting from the loading spout to the baghouse shall be properly maintained to prevent fugitive dust emissions [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 PM10 emissions shall not exceed 0.004 pounds per ton of material processed [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 The quantity of material processed by the gluten meal loadout system shall not exceed 150 tons in any one day [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 11 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 12 Dust collector shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 13 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit

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

- 14 A record of the daily amount of material processed by the system shall be kept on the premises at all times and shall be made available for the District inspection upon request [District Rule 2201] Federally Enforceable Through Title V Permit
- 15 Records of duct collector maintenance inspections and repair shall be maintained The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 16 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N-238 10 10

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

STARCH FLASH DRYER EQUIPPED WITH A 21 MMBTU/HR COEN QLN BURNER AND TWO STARCH RECOVERY CYCLONES SERVED BY TWO DUCON MULTIVANE GAS SCRUBBERS TYPE L MODEL II

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 Exhaust from the turbine and heat recovery boiler unit permitted under N-238 18 may be vented to the starch dryer [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Emissions from the turbine and heat recovery boiler unit permitted under N 238 18 are not accounted for in the permitted emission limits for the starch dryer [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 NOx emissions from the starch dryer shall not exceed 4.3 ppmvd @ 19% O2 referenced as NO2 [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 5 CO emissions from the starch dryer shall not exceed 42 ppmvd @ 19% O2 [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 6 SOx emissions from the starch dryer burner shall not exceed 0.00285 lb/MMBtu [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 PM10 emissions from the starch dryer shall not exceed 0.24 pounds per ton of starch dried [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 No more than 320 tons of starch shall be dried in any one day [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 VOC emissions from the starch dryer shall not exceed 20 pounds in any one day [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 Each scrubber shall be equipped with an operational differential pressure gauge to measure the pressure drop across the scrubber (i.e. outlet and inlet sections of the scrubber) [District Rule 2201 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 11 The differential pressure across each scrubber shall not exceed 10.0 inches of water column. Upon detecting any excursion, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2520 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 12 Each scrubber liquid supply shall have an operational pressure gauge at the inlet to the scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 13 The scrubber sprays and/or nozzles shall be maintained in optimum working condition and shall be inspected at least once every 12 months. A record of the date of inspection, identification of the equipment, identification of the individual performing the inspection, and any corrective action taken shall be maintained on site [District Rule 2201] Federally Enforceable Through Title V Permit

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

- 14 Each scrubber shall be equipped with an operational liquid flow meter [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 15 For each scrubber, the liquid recirculation flow rate shall not be less than 83 gallons per minute (equivalent to 3 gpm/1 000 cfm for each fan rated at 27 500 cfm) Upon detecting any excursion the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2201 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 16 The starch dryer shall be fired exclusively on PUC quality natural gas [District Rule 2201] Federally Enforceable Through Title V Permit
- 17 All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3 0 of District Rule 4309 [District Rule 4309] Federally Enforceable Through Title V Permit
- 18 Source testing to measure NOx and CO emissions from the starch dryer shall be conducted at least once every twenty-four months for each exhaust stack Source testing shall be conducted when the exhaust from the turbine and waste heat recovery boiler unit permitted under N 238-18 is not being vented to the starch dryer [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 19 For emissions source testing the arithmetic average of three 30 consecutive minute test runs shall apply If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit [District Rule 4309] Federally Enforceable Through Title V Permit
- 20 NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis [District Rule 4309] Federally Enforceable Through Title V Permit
- 21 CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100 [District Rule 4309] Federally Enforceable Through Title V Permit
- 22 Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100 [District Rule 4309] Federally Enforceable Through Title V Permit
- 23 Source testing shall be conducted using the methods and procedures approved by the District The District must be notified at least 30 days prior to any compliance source test and a source test plan must be submitted for approval at least 15 days prior to testing [District Rule 1081] Federally Enforceable Through Title V Permit
- 24 The results of each source test shall be submitted to the District within 60 days thereafter [District Rule 1081] Federally Enforceable Through Title V Permit
- 25 The permittee shall monitor and record the stack concentration of NOx CO and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications given in District Policy SSP 3005 (Emissions Monitoring for Rule 4309) or approved by the APCO Monitoring shall not be required if the unit is not in operation i e the unit need not be started solely to perform monitoring Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month [District Rule 4309] Federally Enforceable Through Title V Permit
- 26 If either the NOx or CO concentrations corrected to 19% O2 (or no correction if measured above 19% O2) as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible but no longer than 1 hour of operation after detection If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance In lieu of conducting a source test, the permittee may stipulate a violation has occurred subject to enforcement action The permittee must then correct the violation show compliance has been re-established and resume monitoring procedures If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition [District Rule 4309] Federally Enforceable Through Title V Permit

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

- 27 All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period. [District Rule 4309] Federally Enforceable Through Title V Permit
- 28 The permittee shall maintain records of (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements; (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>); (3) make and model of exhaust gas analyzer; (4) exhaust gas analyzer calibration records; and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4309] Federally Enforceable Through Title V Permit
- 29 All test results for NO<sub>x</sub> and CO shall be reported in ppmv @ 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>) corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit
- 30 A daily log containing total hours of operation, type and quantity of fuel used, and the amount of starch processed shall be kept on the premises and shall be made available for District inspection upon request. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 31 Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv on a dry basis averaged over 15 consecutive minutes. [County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit
- 32 This unit shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus County)] Federally Enforceable Through Title V Permit
- 33 Scrubber liquid recirculation rate (gpm) through each scrubber and differential pressure across each scrubber (inches of water column) shall be observed and recorded at least once a day while the dryer is in operation. The records shall include date of inspection, identification of the equipment, identification of the individual performing the inspection, and the corrective action taken. [District Rule 2520 9 4 2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 34 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 for the scrubbers. [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 35 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9 for the scrubbers. [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 36 If the District or EPA determines per 40 CFR 64.7(d)(2) that a Quality Improvement Plan is required, the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 37 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 2520 9 4 2 and 4309, and 40 CFR Part 64] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 11-4

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

STARCH TRANSFER AND STORAGE SERVED BY A CARTER-DAY DUST COLLECTOR TYPE R F

## PERMIT UNIT REQUIREMENTS

- 1 Visible emissions from truck or railcar loading operations shall be less than 20% opacity [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.041 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 The flexible air suction hoses shall be used at all times during truck and railcar loading [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 9 Visible emissions from baghouse serving the starch transfer and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 10 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 11 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 12 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 13 Records of duct collector maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 14 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 12 3

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

BULK STARCH LOADOUT SERVED BY A CARTER DAY DUST COLLECTOR

## PERMIT UNIT REQUIREMENTS

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- 1 Visible emissions from truck or railcar loading operations shall be less than 20% opacity [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.041 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 The flexible air suction hoses shall be used at all times during truck and railcar loading [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 9 Visible emissions from baghouse serving the bulk starch loadout shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 10 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 11 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 12 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 13 Records of duct collector maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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- 14 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520, 9 4 2] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 13 7

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

ONE (1) GERM DRYER SERVED BY A CYCLONE A DUCON TYPE L MODEL II PARTICULATE SCRUBBER AND A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 Each scrubber shall have an operational differential pressure gauge [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Each scrubber liquid supply (at inlet to scrubber) shall have an operational flow meter [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 A minimum liquid to gas ratio of 4 gpm per 1,000 cfm shall be provided for each scrubber. Upon detecting any excursion, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2201 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 6 The emissions from this unit shall be ducted to the control devices at all times that the equipment is in operation except for SOx scrubber maintenance [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 Except for SOx scrubber maintenance, the SOx emissions shall not exceed 0.50 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 VOC emissions shall not exceed 1.90 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 PM10 emissions shall not exceed 0.62 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 The exhaust gases may be bypassed through the bypass duct after the particulate scrubber and prior to the SOx scrubber in the event of SOx scrubber maintenance [District Rule 2201] Federally Enforceable Through Title V Permit
- 11 The exhaust gases may be bypassed for a period not to exceed 200 hours per year for maintenance of the SOx scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 12 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 13 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

- 14 If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64 7(d)(2) the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 15 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed from the SOx scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 16 Records of the SOx scrubber liquid flow rate shall be observed and recorded weekly during operation of this unit The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 17 Records of the PM10 particulate scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 18 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 14-3

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

GERM TRANSFER AND STORAGE SERVED BY A CARTER DAY BAGHOUSE TYPE R-F

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0.002 grains/scf and 0.043 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the germ transfer and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 11 Records of duct collector maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT N 238-15-3

EQUIPMENT DESCRIPTION  
BULK GERM LOADOUT

EXPIRATION DATE: 03/31/2014

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## PERMIT UNIT REQUIREMENTS

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- 1 See facility wide permit N 238 0 for the requirements applicable to this permit unit [District Rule 2080] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 16-3

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

FILTER AID RECEIVING AND STORAGE SERVED BY A CARTER DAY BAGHOUSE TYPE R F

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.01 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly If visible emissions are observed corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the filter aid receiving and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears scuffs abrasions holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 11 Records of duct collector maintenance inspections and repair shall be maintained The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 17 3

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

CARBON RECEIVING AND STORAGE SERVED BY A CARTER DAY BAGHOUSE MODEL 28 RF6

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.01 lb/hr [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the carbon receiving and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 11 Records of dust collector maintenance, inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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



# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 18 7

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

SOLAR TURBINE INCORPORATED CENTAUR 2800 KW (ISO) CONTINUOUS DUTY INDUSTRIAL GAS TURBINE GENERATOR AND A DELTA WASTE HEAT BOILER MODEL 3L-227 SERVED BY A SELECTIVE CATALYTIC REDUCTION SYSTEM

## PERMIT UNIT REQUIREMENTS

- 1 {2256} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
- 2 The water to fuel injection ratio shall be maintained at a minimum of 0.57 by weight [District NSR Rule and District Rule 4703] Federally Enforceable Through Title V Permit
- 3 The permittee shall maintain and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine [District Rule 4001 and District Rule 4703] Federally Enforceable Through Title V Permit
- 4 A flowmeter shall be operated at the water injection system's water inlet to the turbine. The flow meter shall be equipped with flow totalizer [District Rule 2201 and District Rule 4703] Federally Enforceable Through Title V Permit
- 5 The turbine shall only be fired on natural gas with a sulfur content not exceeding 1.0 grains of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas fuel [District Rule 2201, 40 CFR 60.333(a) and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
- 6 Emissions from the gas turbine shall not exceed any of the following limits: 120 ppmvd CO @15% O<sub>2</sub>, 0.0070 lb-PM<sub>10</sub>/MMBtu, 0.0021 lb VOC/MMBtu (referenced as methane) and 0.00285 lb SO<sub>x</sub>/MMBtu (referenced as SO<sub>2</sub>). The CO emission limit is based on a 3 hour average [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 7 Ammonia slip (NH<sub>3</sub>) emissions shall not exceed 5 ppmvd @ 15% O<sub>2</sub> [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Except during startup and shutdown periods, emissions from the gas turbine system shall not exceed 9 ppmvd NO<sub>x</sub> @ 15% O<sub>2</sub> [District Rules 2201 and 4703, and 40 CFR 60.332(c)] Federally Enforceable Through Title V Permit
- 9 During startup and shutdown periods, emissions from the gas turbine system shall not exceed 35 ppmvd NO<sub>x</sub> @ 15% O<sub>2</sub> once the turbine generator has reached operating speed [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 10 The duration of each startup and each shutdown shall not exceed 2 hours per event [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 11 The total combined duration of startups and shutdowns shall not exceed 8 hours in any one day [District Rule 2201] Federally Enforceable Through Title V Permit

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

- 12 Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure including the time required by the unit's emission control system to reach full operation Shutdown shall be defined as the period of time during which a unit is taken from an operational to non operational status as the fuel supply to the unit is completely turned off [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 13 The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown periods [District Rule 4703] Federally Enforceable Through Title V Permit
- 14 Source testing to demonstrate compliance with the NOx CO and NH3 emission limits of the gas turbine system shall be conducted at least once every 12 months The 3 run tests shall be performed at four evenly spaced load points in the normal operating range of the gas turbine [40 CFR 60 335(a) (b)(2) and District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 15 Source testing shall be conducted using the methods and procedures approved by the District The District must be notified at least 30 days prior to any compliance source test and a source test plan must be submitted for approval at least 15 days prior to testing [District Rule 1081] Federally Enforceable Through Title V Permit
- 16 NOx emissions (referenced as NO2) shall be determined using EPA Method 7E or EPA Method 20 [District Rules 1081 and 4703 40 CFR 60 335(b)(1)] Federally Enforceable Through Title V Permit
- 17 CO emissions shall be determined using EPA Method 10 or EPA Method 10B [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 18 Oxygen content of the exhaust gas shall be determined using EPA Method 3, EPA Method 3A or EPA Method 20 [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 19 Ammonia (NH3) emissions shall be determined using BAAQMD Method ST 1B [District Rules 1081 2201 and 4102] Federally Enforceable Through Title V Permit
- 20 {2270} All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests Verification of operational status shall as a minimum include completion of the manufacturer's written requirements or recommendations for installation operation and calibration of the device [40 CFR 60 13(b)] Federally Enforceable Through Title V Permit
- 21 The results of each source test shall be submitted to the District within 60 days thereafter [District Rule 1081] Federally Enforceable Through Title V Permit
- 22 If this unit is not fired on PUC regulated natural gas the sulfur content of each natural gas fuel source shall be tested weekly to determine compliance with the fuel sulfur content limit Upon the completion of eight consecutive weekly tests that demonstrate compliance with the fuel sulfur content limit the sulfur content testing may be conducted on a monthly schedule If any test shows non compliance with the fuel sulfur content limit while on a monthly testing schedule, the testing schedule shall return to weekly testing until eight consecutive weeks demonstrate compliance with the fuel sulfur content limit [District Rule 2201 and 40 CFR 60 334(h)(3)] Federally Enforceable Through Title V Permit
- 23 {2261} If this unit is not fired on PUC regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072 D 4084 or D 3246 [40 CFR 60 335(d)] Federally Enforceable Through Title V Permit
- 24 If this unit is fired on PUC regulated natural gas, then the owner or operator shall maintain copies of the natural gas bills on file [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 25 Ammonia shall be injected whenever the selective catalytic reduction system catalyst temperature exceeds the minimum ammonia injection temperature recommended by the manufacturer [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

- 26 During initial performance testing, the ammonia injection rate shall be monitored concurrently with each testing run to establish acceptable values and ranges that provide a reasonable assurance of ongoing compliance with the emissions limitations stated in this permit. The minimum ammonia injection rate(s) demonstrated during the initial NOx source test to result in compliance with the NOx emission limits shall be imposed as a condition in the Permit to Operate [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 27 If the ammonia injection rate is less than the minimum ammonia injection rate demonstrated during the initial compliance test, the permittee shall return the ammonia injection rate above the minimum ammonia injection rate established during compliance testing as soon as possible, but no longer than eight hours after detection. If the ammonia injection rate is not returned above the minimum ammonia injection rate established during compliance testing within eight hours, the permittee shall notify the District within the following one hour and conduct a source test within 60 days of the first exceedance to demonstrate compliance with the applicable emission limits at the reduced ammonia injection rate. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 28 The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 weekly using a portable emissions monitor that meets District specifications. If compliance with the NOx and CO emissions is demonstrated for eight consecutive weeks, then the monitoring frequency will be reduced to monthly. If deviations are observed in two consecutive months, monitoring shall revert to weekly until eight consecutive weeks show no deviations. Monitoring shall not be required if the unit is not in operation, i.e., the unit need not be started solely to perform monitoring. Monitoring shall be performed within one day of restarting the unit unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the week if on a weekly monitoring schedule. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 29 If the NOx and/or CO concentrations, as measured by the permittee with a portable emissions monitor, exceed the permitted emission limits, the permittee shall notify the District and return the NOx and CO concentrations to the permitted emission limits as soon as possible, but no longer than eight hours after detection. If the permittee's portable emission monitor readings continue to exceed the permitted emissions limits after eight hours, the permittee shall notify the District within the following one hour and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 30 Permittee shall determine and record the ammonia slip monthly using a draeger tube, or equivalent ammonia detection device. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 31 The owner or operator shall submit a report of NOx excess emissions and periods of monitor downtime to the APCO semi-annually, and this report shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(5)] Federally Enforceable Through Title V Permit
- 32 NOx excess emissions shall be defined as any unit operating hour for which the average water to fuel injection rate, as measured by the continuous monitoring system, falls below the water to fuel ratio specified in this permit, including during startup and shutdown. NOx excess emissions shall also be defined as any 4-hour rolling unit operating hour in which the average ammonia injection rate falls below the minimum ammonia injection rate(s) specified in this permit, not including startup or shutdown. NOx monitor downtime shall be defined as any operating hour during which the water to fuel ratio or ammonia injection rate is either not recorded or is invalid. [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
- 33 Permittee shall maintain daily records of the occurrence and duration of each startup or shutdown and the total cumulative duration of all startups and shutdowns. [District Rule 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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- 34 The owner or operator shall maintain a stationary gas turbine operating log that includes on a daily basis, the actual local start up and stop time length and reason for reduced load periods total hours of operation type and quantity of fuel used [District Rule 4703 and 40 CFR 60 332(a) and (b)] Federally Enforceable Through Title V Permit
- 35 The owner or operator of the stationary gas turbine system shall maintain records of the following (1) Water to fuel injection continuous monitoring system measurements, (2) Ammonia injection rate monitoring system measurements and (3) Periodic NOx, CO and O2 portable emissions monitor measurements [District Rules 2201 and 2520, 9 4 2] Federally Enforceable Through Title V Permit
- 36 All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request [District Rules 2520 and 4703] Federally Enforceable Through Title V Permit
- 37 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements San Joaquin County Rule 108 1 as of the date of permit issuance A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit
- 38 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements San Joaquin Country Rule 407 as of the date of permit issuance A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit
- 39 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements 40 CFR 60 7(b), District Rule 1081 (as amended 12/16/93) as of the date of permit issuance A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT N 238-19-7

EXPIRATION DATE: 03/31/2014

**EQUIPMENT DESCRIPTION**

ONE 12 000 GALLON ABOVE GROUND SALT SLURRY STORAGE TANK

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**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 Visible emissions from the sock filter serving the vent of the salt storage tank shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 A spare sock filter shall be kept on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 The quantity of salt received shall not exceed 60 000 pounds during any one day and shall not exceed 120 000 pounds during any one month [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 PM10 emission rate shall not exceed 0.003 pounds per ton of salt received [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 A minimum of 7.7 gpm of water shall be added during transfer of the salt from the trucks to the storage tank [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 The sock filter shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 8 The permittee shall maintain a daily record of the date and quantity of salt received [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 The permittee shall maintain records of the sock filter maintenance, inspections and repair. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 10 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 24 7

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

FIRST GRIND OVERFLOW TANK SERVED BY A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER AND A BIOTON MODEL 2 2 34 BIOFILTER (THE CONTROL EQUIPMENT ALSO SERVES N 238-33)

## 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 Each scrubber shall have an operational differential pressure gauge [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Each scrubber liquid supply (at inlet to scrubber) shall have an operational flow meter [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 5 A minimum liquid to gas ratio of 4 gpm per 1,000 cfm shall be provided for each scrubber [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 6 If the liquid to gas ratio of the scrubber is less than 4 gpm per 1,000 cfm during operation the permittee shall correct the liquid to gas ratio to a minimum of 4 gpm per 1,000 cfm as soon as possible but no longer than 1 hour of operation after detection. If the liquid to gas ratio continues to be less than 4 gpm per 1,000 cfm after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 7 The emissions from this unit shall be ducted to the control devices at all times that the equipment is in operation except for SOx scrubber and biofilter maintenance or a complete biofilter bed change out [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Except for SOx scrubber and biofilter maintenance or a complete biofilter bed change out, the combined SOx emissions from the equipment operating under Permits to Operate N 238-33 and N-238-24 shall not exceed 1.25 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 Except for SOx scrubber and biofilter maintenance, or a complete biofilter bed change out the combined VOC emissions from the equipment operating under Permits to Operate N 238-33 and N-238 24 shall not exceed 0.33 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 The exhaust gases may be bypassed through the bypass duct prior to the SOx scrubber in the event of SOx scrubber or biofilter maintenance, or for complete biofilter bed change out [District Rule 2201] Federally Enforceable Through Title V Permit
- 11 The exhaust gases may be bypassed for a period not to exceed 200 hours per year for maintenance of the SOx scrubber or the biofilter [District Rule 2201] Federally Enforceable Through Title V Permit
- 12 The exhaust gases may be bypassed for a period not to exceed 340 hours per year for the complete biofilter bed change out [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 During operation the biofilter temperature shall not exceed 110 degrees F and shall not be less than 60 degrees F [40 CFR part 64] Federally Enforceable Through Title V Permit
- 14 The temperature of the air flow through the biofilter media shall be monitored daily during operation [40 CFR part 64] Federally Enforceable Through Title V Permit
- 15 The temperature gauge (probe) monitoring the air flow through the biofilter media shall be maintained per manufacturer s recommendations [40 CFR part 64] Federally Enforceable Through Title V Permit
- 16 Biofilter shall be thoroughly inspected annually for biofilter media deterioration and shall be replaced or repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 17 Records of the SOx scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 18 Records of the biofilter temperature shall be observed and recorded daily, during operation of this unit The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 19 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed from the SOx scrubber and the biofilter or when a complete biofilter bed change out was performed [District Rule 2201] Federally Enforceable Through Title V Permit
- 20 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64 7 for the scrubbers [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 21 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 for the scrubbers [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 22 If the District or EPA determines per 40 CFR 64 7(d)(2) that a Quality Improvement Plan is required the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 23 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238-25 5

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

GLUTEN DEWATERING FILTER AND VACUUM SYSTEMS WITH A SOX SCRUBBER ON THE EXHAUST STREAM

## PERMIT UNIT REQUIREMENTS

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- 1 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 The pH of the scrubbing liquid shall be maintained at 6.5 or greater with a purge flow rate of 6.0 gallons per minute. A continuous monitoring device shall be installed and maintained to measure the pH of the scrubbing liquid [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 A minimum liquid to gas ratio of 17.7 gpm per 1,000 cfm shall be provided for this scrubber or the liquid recirculation rate shall be at least 230 gpm for sufficient contact [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 A liquid flow meter to monitor the liquid recirculation flow rate shall be installed and maintained in proper working order [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 The SO<sub>x</sub> emissions shall not exceed 0.146 pounds per hour while the exhaust gases are passed through the SO<sub>x</sub> scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 The SO<sub>x</sub> emissions shall not exceed 0.250 pounds per hour while the exhaust gases are bypassed from the SO<sub>x</sub> scrubber during scrubber maintenance [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 The VOC emissions shall not exceed 2.083 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 The exhaust gases may be bypassed around the SO<sub>x</sub> scrubber in the event of SO<sub>x</sub> scrubber maintenance for a period not to exceed 48 hours per year [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 Liquid flow meter shall be observed and recorded weekly during operation of this unit [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 10 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed around the SO<sub>x</sub> scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 11 Records of the SO<sub>x</sub> scrubber liquid flow rate shall be observed and recorded weekly during operation of this unit. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9.4.2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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



# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 29 4

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

SULFUROUS ACID PLANT CONSISTING OF AN ELEMENTAL SULFUR BURNER AND TWO ABSORBERS VENTED TO A LUNDBERG SCRUBBER WITH A MIST ELIMINATOR TWELVE STEEP TANKS (69 000 GAL EACH) AND ONE DRAW TANK VENTED TO THE LINDBERG SCRUBBER SERVING THE ACID PLANT

## PERMIT UNIT REQUIREMENTS

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- 1 Scrubber sprays and/or nozzles shall be maintained in optimum working condition [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 The scrubber and the scrubber fluid shall be maintained such that the scrubber provides at least 99% control of the SO<sub>2</sub> emissions [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 The mist eliminator shall be properly maintained and must be operating during the sulfurous acid production process [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 The sulfur dioxide (SO<sub>2</sub>) emissions concentration shall not exceed 0.7 pounds per ton of elemental sulfur burned in the sulfur burner [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 No more than 6 000 pounds of elemental sulfur shall be burned in the sulfur burner during any one day [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 Sulfur compound emissions shall not exceed 0.2% by volume 2000 ppmv, on a dry basis averaged over 15 consecutive minutes [District Rule 4801] Federally Enforceable Through Title V Permit
- 7 Records of the daily amount of elemental sulfur burned shall be kept on the premises Records shall be maintained for a period of at least five years and shall be made available for District inspection upon request [District Rules 2201 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 30 3

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

SODA ASH RECEIVING AND STORAGE WITH ONE (1) 60 000 GALLON STORAGE TANK SERVED BY A DUCON MULTIVANE WET SCRUBBER (TYPE L SIZE 18)

## PERMIT UNIT REQUIREMENTS

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- 1 There shall be no visible emissions from the scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 The scrubber shall have operational differential pressure indicator [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Scrubber sprays and/or nozzles shall be maintained in optimum working condition [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 All emissions from soda ash slurry storage tank shall be vented through the scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 The PM10 emission concentration shall not exceed 0 002 lbs per ton of material received [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 The maximum amount of material received shall not exceed 54 tons in any one day [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 Daily records of the amount of material received shall be maintained, retained on the premises for a minimum of five years and made available for District inspection upon request [District Rules 2201 and 2520, 9 4 2] Federally Enforceable Through Title V Permit
- 8 Records of the PM10 scrubber pressure differential shall be observed and recorded weekly during soda ash unloading. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 33 5

EXPIRATION DATE: 03/31/2014

## EQUIPMENT DESCRIPTION

GLUTEN PROCESSING OPERATION CONSISTING OF GLUTEN DRYER (DAVENPORT MODEL RSTD) A GLUTEN CONDITIONER AND ASSOCIATED CONVEYING SYSTEM THE GLUTEN CONDITIONER IS VENTED TO THE GLUTEN DRYER WHICH IS SERVED BY A CYCLONE FOLLOWED BY A PARTICULATE MATTER SCRUBBER A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER AND A BIOTON MODEL 2-2 34 BIOFILTER (THE SOX & VOC CONTROLS ARE SHARED WITH PERMIT N 238-24)

## 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 Each scrubber shall have an operational differential pressure gauge [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Each scrubber liquid supply (at inlet to scrubber) shall have an operational flow meter [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 5 A minimum liquid to gas ratio of 4 gpm per 1 000 cfm shall be provided for each scrubber [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 6 If the liquid to gas ratio of the scrubber is less than 4 gpm per 1 000 cfm during operation, the permittee shall correct the liquid to gas ratio to a minimum of 4 gpm per 1 000 cfm as soon as possible but no longer than 1 hour of operation after detection. If the liquid to gas ratio continues to be less than 4 gpm per 1 000 cfm after 1 hour of operation after detection the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation show compliance has been re-established and resume monitoring procedures [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 7 The emissions from this unit shall be ducted to the control devices at all times that the equipment is in operation except for SOx scrubber and biofilter maintenance or a complete biofilter bed change out [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Except for SOx scrubber and biofilter maintenance or a complete biofilter bed change out, the combined SOx emissions from the equipment operating under Permits to Operate N-238-33 and N-238-24 shall not exceed 1.25 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 Except for SOx scrubber and biofilter maintenance, or a complete biofilter bed change out, the combined VOC emissions from the equipment operating under Permits to Operate N-238 33 and N-238 24 shall not exceed 0.33 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 PM10 emissions shall not exceed 1.04 pounds per hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 11 The exhaust gases may be bypassed through the bypass duct after the particulate scrubber and prior to the SOx scrubber in the event of SOx scrubber or biofilter maintenance, or for complete biofilter bed change out [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 The exhaust gases may be bypassed for a period not to exceed 200 hours per year for maintenance of the SOx scrubber or the biofilter [District Rule 2201] Federally Enforceable Through Title V Permit
- 13 The exhaust gases may be bypassed for a period not to exceed 340 hours per year for the complete biofilter bed change out [District Rule 2201] Federally Enforceable Through Title V Permit
- 14 The District shall be notified of any breakdown conditions in accordance with Rule 1100 (Equipment Breakdown) [District Rule 1100]
- 15 During operation the biofilter temperature shall not exceed 110 degrees F and shall not be less than 60 degrees F [40 CFR part 64] Federally Enforceable Through Title V Permit
- 16 The temperature of the air flow through the biofilter media shall be monitored daily during operation [40 CFR part 64] Federally Enforceable Through Title V Permit
- 17 The temperature gauge (probe) monitoring the air flow through the biofilter media shall be maintained per manufacturer's recommendations [40 CFR part 64] Federally Enforceable Through Title V Permit
- 18 Biofilter shall be thoroughly inspected annually for biofilter media deterioration and shall be replaced or repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 19 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed from the SOx scrubber and the biofilter or when a complete biofilter bed change out was performed [District Rule 2201] Federally Enforceable Through Title V Permit
- 20 Records of the SOx scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 21 Records of the PM10 particulate scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 22 Records of the biofilter temperature shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 23 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64 7 for the scrubbers [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 24 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 for the scrubbers [40 CF Part 64] Federally Enforceable Through Title V Permit
- 25 If the District or EPA determines per 40 CFR 64 7(d)(2) that a Quality Improvement Plan is required the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 26 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Previous Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY N-238-0 2

EXPIRATION DATE 03/31/2014

## FACILITY-WIDE REQUIREMENTS

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- 1 The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary [District Rule 1100 6 1 County Rules 110 (Fresno Stanislaus, San Joaquin), 109 (Merced), 113 (Madera) and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
- 2 The District shall be notified in writing within ten days following the correction of any breakdown condition The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure the estimated emissions in excess of those allowed and the methods utilized to restore normal operations [District Rule 1100 7 0, County Rules 110 (Fresno Stanislaus San Joaquin) 109 (Merced), 113 (Madera) and 111 (Kern Tulare, Kings)] Federally Enforceable Through Title V Permit
- 3 The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds shall provide the District annually with a written statement in such form and at such time as the District prescribes showing actual emissions of nitrogen oxides and reactive organic compounds from that source [District Rule 1160, 5 0] Federally Enforceable Through Title V Permit
- 4 Any person building altering or replacing any operation article, machine equipment or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate reduce, or control the issuance of air contaminants shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07) [District Rule 2010 3 0 and 4 0 and 2020] Federally Enforceable Through Title V Permit
- 5 The permittee must comply with all conditions of the permit including permit revisions originated by the District All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA) including provisions to limit potential to emit are enforceable by the EPA and Citizens under the CAA Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations and is grounds for enforcement action, for permit termination revocation reopening and reissuance or modification, or for denial of a permit renewal application [District Rules 2070 7 0 2080 and 2520 9 8 1 and 9 12 1] Federally Enforceable Through Title V Permit
- 6 A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District [District Rule 2031] Federally Enforceable Through Title V Permit
- 7 Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District [District Rule 2040] Federally Enforceable Through Title V Permit
- 8 The operator shall maintain records of required monitoring that include 1) the date place and time of sampling or measurement, 2) the date(s) analyses were performed, 3) the company or entity that performed the analysis, 4) the analytical techniques or methods used 5) the results of such analysis and 6) the operating conditions at the time of sampling or measurement [District Rule 2520 9 4 1] Federally Enforceable Through Title V Permit
- 9 The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample measurement, or report Support information includes copies of all reports required by the permit and for continuous monitoring instrumentation all calibration and maintenance records and all original strip chart recordings [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit

FACILITY WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name INGREDION INCORPORATED  
Location 1021 INDUSTRIAL DR STOCKTON CA 95206  
N 238 0 2 F b 5 2014 3 44PM YOSHIMUJ

- 10 The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement All instances of deviations from permit requirements must be clearly identified in such reports [District Rule 2520 9 5 1] Federally Enforceable Through Title V Permit
- 11 Deviations from permit conditions must be promptly reported including deviations attributable to upset conditions, as defined in the permit For the purpose of this condition promptly means as soon as reasonably possible, but no later than 10 days after detection The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken All required reports must be certified by a responsible official consistent with section 10 0 of District Rule 2520 (6/21/01) [District Rules 2520, 9 5 2 and 1100 7 0] Federally Enforceable Through Title V Permit
- 12 If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit [District Rule 2520 9 7] Federally Enforceable Through Title V Permit
- 13 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit [District Rule 2520 9 8 2] Federally Enforceable Through Title V Permit
- 14 The permit may be modified, revoked, reopened and reissued, or terminated for cause The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition [District Rule 2520 9 8 3] Federally Enforceable Through Title V Permit
- 15 The permit does not convey any property rights of any sort or any exclusive privilege [District Rule 2520 9 8 4] Federally Enforceable Through Title V Permit
- 16 The Permittee shall furnish to the District within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying revoking and reissuing or terminating the permit or to determine compliance with the permit Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality [District Rule 2520, 9 8 5] Federally Enforceable Through Title V Permit
- 17 The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations [District Rule 2520 9 9] Federally Enforceable Through Title V Permit
- 18 Upon presentation of appropriate credentials a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit [District Rule 2520 9 13 2 1] Federally Enforceable Through Title V Permit
- 19 Upon presentation of appropriate credentials a permittee shall allow an authorized representative of the District to have access to and copy at reasonable times any records that must be kept under the conditions of the permit [District Rule 2520 9 13 2 2] Federally Enforceable Through Title V Permit
- 20 Upon presentation of appropriate credentials a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities equipment practices, or operations regulated or required under the permit [District Rule 2520, 9 13 2 3] Federally Enforceable Through Title V Permit
- 21 Upon presentation of appropriate credentials a permittee shall allow an authorized representative of the District to sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements [District Rule 2520 9 13 2 4] Federally Enforceable Through Title V Permit
- 22 No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater unless specifically exempted by District Rule 4101 (2/17/05) If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition the more stringent visible emission limit shall supersede this condition [District Rule 4101 and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 23 No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (12/17/09) for use or sale within the District [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
- 24 All VOC-containing materials for architectural coatings subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
- 25 The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09) [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
- 26 With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
- 27 If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F [40 CFR 82, Subpart F] Federally Enforceable Through Title V Permit
- 28 If the permittee performs service on motor vehicles when this service involves the ozone depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
- 29 Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/04) or Rule 8011 (8/19/04) [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
- 30 Outdoor handling, storage, and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/04) or Rule 8011 (8/19/04) [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
- 31 An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041, Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011 (8/19/04) [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
- 32 Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/04) or Rule 8011 (8/19/04) [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
- 33 Any paved road or unpaved road shall comply with the requirements of District Rule 8061, unless specifically exempted under Section 4.0 of Rule 8061 (8/19/04) or Rule 8011 (8/19/04) [District Rules 8011 and Rule 8061] Federally Enforceable Through Title V Permit
- 34 Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 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 (9/16/04) or Rule 8011 (8/19/04) [District Rules 8011 and Rule 8071] Federally Enforceable Through Title V Permit
- 35 Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos-containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation) [40 CFR 61, Subpart M] Federally Enforceable Through Title V Permit

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



- 36 The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits including emission limits standards and work practices to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District) The certification shall include the identification of each permit term or condition, the compliance status whether compliance was continuous or intermittent, the methods used for determining the compliance status and any other facts required by the District to determine the compliance status of the source [District Rule 2520 9 16] Federally Enforceable Through Title V Permit
- 37 The permittee shall submit an application for Title V permit renewal to the District at least six months but not greater than 18 months prior to the permit expiration date [District Rule 2520 5 2] Federally Enforceable Through Title V Permit
- 38 When a term is not defined in a Title V permit condition the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply [District Rule 2520, 9 1 1] Federally Enforceable Through Title V Permit
- 39 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) and Rule 111 (Kern Tulare, Kings) A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit
- 40 Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements SJVUAPCD Rules 1100 sections 6 1 and 7 0 (12/17/92) 2010, sections 3 0 and 4 0 (12/17/92) 2031 (12/17/92), 2040 (12/17/92), 2070, section 7 0 (12/17/92) 2080 (12/17/92) 4101 (2/17/05), 4601, sections 5 1, 5 2, 5 3, 5 8 and 8 0 (12/17/09), 8021 (8/19/04), 8031 (8/19/04) 8041 (8/19/04) 8051 (8/19/04) 8061 (8/19/04) and 8071 (9/16/04) A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit
- 41 No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]
- 42 Particulate matter (PM) emissions from the entire facility shall not exceed 25 pounds per hour or 250 pounds per day [District NSR Rule] Federally Enforceable Through Title V Permit
- 43 The PM10 limit from the entire facility shall not exceed 200 pounds per day [District NSR Rule] Federally Enforceable Through Title V Permit
- 44 On December 31 2004 the initial Title V permit was issued The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division These reports are due within 30 days after the end of the reporting period [District Rule 2520] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N-238-1-4

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

CORN RECEIVING AND STORAGE OPERATION CONSISTING OF RECEIVING PITS VARIOUS CONVEYING EQUIPMENT AND THREE HOPPERS ALL VENTED TO A CARTER DAY MODEL 376 RF8 BAGHOUSE AND THREE STORAGE BINS EACH EQUIPPED WITH A BIN VENT FILTER THE THIRD STORAGE SILO (#3) IS SERVED BY A DCL INC MODEL BV25 58 112A912Z TO BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouses shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags Each gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The cleaning frequency and duration for each baghouse shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from each baghouse shall not exceed 0.002 grains/dscf in concentration [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Particulate matter emissions from unloading shall not exceed 0.93 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 Particulate matter emissions from silos 1, 2 and 3 shall not exceed 0.93 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 9 The annual quantity of corn received shall not exceed 2,628,000 tons per year, based on a 12 month rolling period [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 The owner/operator shall check for visible emissions on a daily basis If any particulate matter emissions are visible the baghouse and bin vent filter shall be inspected for any tears, abrasions or holes in the fabric Any defective or damaged material shall be repaired or replaced [District Rules 4201, 4202, 2520 Section 9.3.2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 11 Visible emissions from each baghouse shall be evaluated using EPA Method 22 for a period of at least 6 minutes at least once during each day the baghouse is operated If visible emissions are observed corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9.3.2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit

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

- 12 Baghouse and bin vent filter shall be inspected at least quarterly when the unit is not in operation for tears scuffs abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed [District Rule 2520 9 3 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 13 Visible emissions from baghouse serving the hoppers shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 14 Records of baghouse and bin vent filter maintenance, inspections and repair shall be maintained The records shall include identification of the equipment date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 15 The permittee shall maintain records of the cumulative amount of corn received based on a 12-month rolling period Records shall be updated at least once per month [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
- 16 All records shall be retained for a minimum of five years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 2 2

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

CORN CLEANING OPERATION WITH THREE DRAG CONVEYORS AND ONE ELEVATOR VENTED TO A BIN FILTER ASPERATED CORN CLEANER TWO HOPPERS AND VARIOUS CONVEYORS VENTED TO A CARTER-DAY BAGHOUSE AND ONE CORN CLEANINGS HOPPER VENTED TO A CARTER DAY BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from each baghouse shall not exceed 0 002 grains/dscf [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Particulate matter emissions from the elevator shall not exceed 0 017 pounds in any one hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 Particulate matter emissions from cleaning shall not exceed 0 175 pounds in any one hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 Particulate matter emissions from the cleaning silo shall not exceed 0 014 pounds in any one hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 9 Visible emissions from the baghouse shall be checked quarterly If visible emissions are observed corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted within 48 hours [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 10 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 11 Dust collector filters shall be thoroughly inspected annually for tears scuffs abrasions holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 12 Visible emissions from baghouse serving the conveyors shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 13 Records of baghouse and bin vent filter maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 14 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 8 2

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

GLUTEN MILLING TRANSFER AND STORAGE SERVED BY A CARTER DAY DUST COLLECTOR TYPE R F

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.036 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly If visible emissions are observed corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the gluten milling, transfer and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
- 11 Records of duct collector maintenance inspections and repair shall be maintained The records shall include identification of the equipment, date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 9-4

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

BULK GLUTEN LOADOUT SYSTEM WITH A STATIONARY HOOD AND A W W SLY MODEL XP 10 RETRACTABLE LOADING SPOUT SERVED BY AN ALANCO MODEL 378 RLP-FILTER BAGHOUSE

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 The baghouse shall be equipped with an operational pressure differential gauge to indicate the pressure drop across the bags [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 Visible emissions from the baghouse serving the gluten meal loadout operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Material removed from baghouse shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 Replacement bags numbering at least 10% of the total number of bags in the baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 All ducting from the loading spout to the baghouse shall be properly maintained to prevent fugitive dust emissions [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 PM10 emissions shall not exceed 0.004 pounds per ton of material processed [District NSR Rule] Federally Enforceable Through Title V Permit
- 9 The quantity of material processed by the gluten meal loadout system shall not exceed 150 tons in any one day [District NSR Rule] Federally Enforceable Through Title V Permit
- 10 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 11 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 12 Dust collector shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 13 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 14 A record of the daily amount of material processed by the system shall be kept on the premises at all times and shall be made available for the District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit
- 15 Records of duct collector maintenance inspections and repair shall be maintained The records shall include identification of the equipment date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit
- 16 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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



# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 10 7

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

STARCH FLASH DRYER EQUIPPED WITH A 21 MMBTU/HR COEN QLN BURNER AND TWO STARCH RECOVERY CYCLONES SERVED BY TWO DUCON MULTIVANE GAS SCRUBBERS TYPE L MODEL II

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 Exhaust from the turbine and heat recovery boiler unit permitted under N-238 18 may be vented to the starch dryer [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Emissions from the turbine and heat recovery boiler unit permitted under N-238 18 are not accounted for in the permitted emission limits for the starch dryer [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 NOx emissions from the starch dryer shall not exceed 4.3 ppmvd @ 19% O2 referenced as NO2 [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 5 CO emissions from the starch dryer shall not exceed 42 ppmvd @ 19% O2 [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 6 SOx emissions from the starch dryer burner shall not exceed 0.00285 lb/MMBtu [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 PM10 emissions from the starch dryer shall not exceed 0.24 pounds per ton of starch dried [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 No more than 320 tons of starch shall be dried in any one day [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 VOC emissions from the starch dryer shall not exceed 20 pounds in any one day [District Rule 2201] Federally Enforceable Through Title V Permit
- 10 Each scrubber shall be equipped with an operational differential pressure gauge to measure the pressure drop across the scrubber (i.e. outlet and inlet sections of the scrubber) [District Rule 2201, 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 11 The differential pressure across each scrubber shall not exceed 10.0 inches of water column. Upon detecting any excursion, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2520, 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 12 Each scrubber liquid supply shall have an operational pressure gauge at the inlet to the scrubber [District Rule 2201] Federally Enforceable Through Title V Permit
- 13 The scrubber sprays and/or nozzles shall be maintained in optimum working condition and shall be inspected at least once every 12 months. A record of the date of inspection, identification of the equipment, identification of the individual performing the inspection, and any corrective action taken shall be maintained on site [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 14 Each scrubber shall be equipped with an operational liquid flow meter [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 15 For each scrubber the liquid recirculation flow rate shall not be less than 83 gallons per minute (equivalent to 3 gpm/1 000 cfm for each fan rated at 27 500 cfm) Upon detecting any excursion the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District Rule 2201, 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 16 The starch dryer shall be fired exclusively on PUC quality natural gas [District Rule 2201] Federally Enforceable Through Title V Permit
- 17 All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer or within 30 minutes after a re ignition as defined in Section 3 0 of District Rule 4309 [District Rule 4309] Federally Enforceable Through Title V Permit
- 18 Source testing to measure NOx and CO emissions from the starch dryer shall be conducted at least once every twenty-four months for each exhaust stack Source testing shall be conducted when the exhaust from the turbine and waste heat recovery boiler unit permitted under N 238 18 is not being vented to the starch dryer [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 19 For emissions source testing the arithmetic average of three 30-consecutive-minute test runs shall apply If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit [District Rule 4309] Federally Enforceable Through Title V Permit
- 20 NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis [District Rule 4309] Federally Enforceable Through Title V Permit
- 21 CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100 [District Rule 4309] Federally Enforceable Through Title V Permit
- 22 Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100 [District Rule 4309] Federally Enforceable Through Title V Permit
- 23 Source testing shall be conducted using the methods and procedures approved by the District The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing [District Rule 1081] Federally Enforceable Through Title V Permit
- 24 The results of each source test shall be submitted to the District within 60 days thereafter [District Rule 1081] Federally Enforceable Through Title V Permit
- 25 The permittee shall monitor and record the stack concentration of NOx CO and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications given in District Policy SSP 3005 (Emissions Monitoring for Rule 4309) or approved by the APCO Monitoring shall not be required if the unit is not in operation i e the unit need not be started solely to perform monitoring Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month [District Rule 4309] Federally Enforceable Through Title V Permit
- 26 If either the NOx or CO concentrations corrected to 19% O2 (or no correction if measured above 19% O2) as measured by the portable analyzer exceed the allowable emissions concentration the permittee shall return the emissions to within the acceptable range as soon as possible but no longer than 1 hour of operation after detection If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance In lieu of conducting a source test, the permittee may stipulate a violation has occurred subject to enforcement action The permittee must then correct the violation, show compliance has been re established and resume monitoring procedures If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100 the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition [District Rule 4309] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 27 All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive minute period. [District Rule 4309] Federally Enforceable Through Title V Permit
- 28 The permittee shall maintain records of (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4309] Federally Enforceable Through Title V Permit
- 29 All test results for NO<sub>x</sub> and CO shall be reported in ppmv @ 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>) corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit
- 30 A daily log containing total hours of operation, type and quantity of fuel used, and the amount of starch processed shall be kept on the premises, and shall be made available for District inspection upon request. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
- 31 Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv on a dry basis, averaged over 15 consecutive minutes. [County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus)] Federally Enforceable Through Title V Permit
- 32 This unit shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus County)] Federally Enforceable Through Title V Permit
- 33 Scrubber liquid recirculation rate (gpm) through each scrubber, and differential pressure across each scrubber (inches of water column) shall be observed and recorded at least once a day while the dryer is in operation. The records shall include date of inspection, identification of the equipment, identification of the individual performing the inspection, and the corrective action taken. [District Rule 2520, 9 4 2, and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 34 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 for the scrubbers. [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 35 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9 for the scrubbers. [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 36 If the District or EPA determines per 40 CFR 64.7(d)(2) that a Quality Improvement Plan is required, the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 37 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request. [District Rules 1070, 2520, 9 4 2, and 4309, and 40 CFR Part 64] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238-11 3

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

STARCH TRANSFER AND STORAGE SERVED BY A CARTER DAY DUST COLLECTOR TYPE R F

## PERMIT UNIT REQUIREMENTS

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- 1 Visible emissions from truck or railcar loading operations shall be less than 20% opacity [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.041 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 The flexible air suction hoses shall be used at all times during truck and railcar loading [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520.9.3.2] Federally Enforceable Through Title V Permit
- 9 Visible emissions from baghouse serving the starch transfer and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520.9.3.2] Federally Enforceable Through Title V Permit
- 10 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520.9.3.2] Federally Enforceable Through Title V Permit
- 11 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520.9.3.2] Federally Enforceable Through Title V Permit
- 12 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520.9.4.2] Federally Enforceable Through Title V Permit
- 13 Records of duct collector maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520.9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 14 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238-12-2

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

BULK STARCH LOADOUT SERVED BY A CARTER DAY DUST COLLECTOR

## PERMIT UNIT REQUIREMENTS

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- 1 Visible emissions from truck or railcar loading operations shall be less than 20% opacity [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Particulate matter emissions from the baghouse shall be no more than 0.002 grain/scf and 0.041 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 The flexible air suction hoses shall be used at all times during truck and railcar loading [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 Visible emissions from the baghouse shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 9 Visible emissions from baghouse serving the bulk starch loadout shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 10 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 11 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 12 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 13 Records of duct collector maintenance inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 14 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 13 6

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

ONE (1) GERM DRYER SERVED BY A CYCLONE A DUCON TYPE L MODEL II PARTICULATE SCRUBBER AND A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 Each scrubber shall have an operational differential pressure gauge [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 Each scrubber liquid supply (at inlet to scrubber) shall have an operational flow meter [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 A minimum liquid to gas ratio of 4 gpm per 1,000 cfm shall be provided for each scrubber. Upon detecting any excursion, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [District NSR Rule and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 6 The emissions from this unit shall be ducted to the control devices at all times that the equipment is in operation except for SOx scrubber maintenance [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 Except for SOx scrubber maintenance, the SOx emissions shall not exceed 0.50 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 VOC emissions shall not exceed 1.90 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 9 PM10 emissions shall not exceed 0.62 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 10 The exhaust gases may be bypassed through the bypass duct after the particulate scrubber and prior to the SOx scrubber in the event of SOx scrubber maintenance [District NSR Rule] Federally Enforceable Through Title V Permit
- 11 The exhaust gases may be bypassed for a period not to exceed 200 hours per year for maintenance of the SOx scrubber [District NSR Rule] Federally Enforceable Through Title V Permit
- 12 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 13 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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- 14 If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64 7(d)(2) the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 15 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed from the SOx scrubber [District NSR Rule] Federally Enforceable Through Title V Permit
- 16 Records of the SOx scrubber liquid flow rate shall be observed and recorded weekly during operation of this unit The records shall include identification of the equipment, date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit
- 17 Records of the PM10 particulate scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 18 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 14 2

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

GERM TRANSFER AND STORAGE SERVED BY A CARTER DAY BAGHOUSE TYPE R F

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0 002 grains/scf and 0 043 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly If visible emissions are observed, corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the germ transfer and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 11 Records of duct collector maintenance, inspections and repair shall be maintained The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT N-238 15 2

EXPIRATION DATE 03/31/2014

EQUIPMENT DESCRIPTION  
BULK GERM LOADOUT

## PERMIT UNIT REQUIREMENTS

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- 1 See facility wide permit N 238 0 for the requirements applicable to this permit unit [District Rule 2080] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 16 2

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

FILTER-AID RECEIVING AND STORAGE SERVED BY A CARTER DAY BAGHOUSE TYPE R F

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0 002 grain/scf and 0 01 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly If visible emissions are observed, corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the filter aid receiving and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears scuffs, abrasions holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 11 Records of duct collector maintenance, inspections and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rules 1070 and 2520, 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238-17 2

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

CARBON RECEIVING AND STORAGE SERVED BY A CARTER DAY BAGHOUSE MODEL 28 RF6

## PERMIT UNIT REQUIREMENTS

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- 1 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency based on the manufacturer's recommendation [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 Particulate matter emissions from the baghouse shall be no more than 0 002 grain/scf and 0 01 lb/hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Visible emissions from the baghouse shall be checked quarterly If visible emissions are observed corrective action shall be taken to eliminate visible emissions If visible emissions cannot be corrected within 24 hours a visible emissions test using EPA Method 9 shall be conducted [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 7 Visible emissions from baghouse serving the carbon receiving and storage shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 8 Dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 9 Dust collector filters shall be thoroughly inspected annually for tears scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 10 Records of quarterly checks of the pressure drop across the bags shall be maintained [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 11 Records of dust collector maintenance inspections and repair shall be maintained The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 18 6

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

SOLAR TURBINE INCORPORATED CENTAUR 2800 KW (ISO) CONTINUOUS DUTY INDUSTRIAL GAS TURBINE GENERATOR AND A DELTA WASTE HEAT BOILER MODEL 3L 227 SERVED BY A SELECTIVE CATALYTIC REDUCTION SYSTEM

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
- 2 The water to fuel injection ratio shall be maintained at a minimum of 0.57 by weight [District NSR Rule and District Rule 4703] Federally Enforceable Through Title V Permit
- 3 The permittee shall maintain and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine [District Rule 4001 and District Rule 4703] Federally Enforceable Through Title V Permit
- 4 A flowmeter shall be operated at the water injection system's water inlet to the turbine. The flow meter shall be equipped with flow totalizer [District NSR Rule and District Rule 4703] Federally Enforceable Through Title V Permit
- 5 The turbine shall only be fired on natural gas with a sulfur content not exceeding 1.0 grains of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas fuel [District Rule 2201, 40 CFR 60.333(a), and San Joaquin County Rule 407] Federally Enforceable Through Title V Permit
- 6 Emissions from the gas turbine shall not exceed any of the following limits: 120 ppmvd CO @15% O<sub>2</sub>, 0.0070 lb PM<sub>10</sub>/MMBtu, 0.0021 lb-VOC/MMBtu (referenced as methane), and 0.00285 lb SO<sub>x</sub>/MMBtu (referenced as SO<sub>2</sub>). The CO emission limit is based on a 3 hour average [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 7 Ammonia slip (NH<sub>3</sub>) emissions shall not exceed 5 ppmvd @ 15% O<sub>2</sub> [District Rule 2201] Federally Enforceable Through Title V Permit
- 8 Except during startup and shutdown periods, emissions from the gas turbine system shall not exceed 9 ppmvd NO<sub>x</sub> @ 15% O<sub>2</sub> [District Rules 2201 and 4703 and 40 CFR 60.332(c)] Federally Enforceable Through Title V Permit
- 9 During startup and shutdown periods, emissions from the gas turbine system shall not exceed 35 ppmvd NO<sub>x</sub> @ 15% O<sub>2</sub> once the turbine generator has reached operating speed [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 10 The duration of each startup and each shutdown shall not exceed 2 hours per event [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 11 The total combined duration of startups and shutdowns shall not exceed 8 hours in any one day [District Rule 2201] Federally Enforceable Through Title V Permit

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

- 12 Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. Shutdown shall be defined as the period of time during which a unit is taken from an operational to non-operational status as the fuel supply to the unit is completely turned off [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 13 The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown periods [District Rule 4703] Federally Enforceable Through Title V Permit
- 14 Source testing to demonstrate compliance with the NO<sub>x</sub>, CO, and NH<sub>3</sub> emission limits of the gas turbine system shall be conducted at least once every 12 months. The 3 run tests shall be performed at four evenly spaced load points in the normal operating range of the gas turbine [40 CFR 60 335(a) (b)(2) and District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 15 Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing [District Rule 1081] Federally Enforceable Through Title V Permit
- 16 NO<sub>x</sub> emissions (referenced as NO<sub>2</sub>) shall be determined using EPA Method 7E or EPA Method 20 [District Rules 1081 and 4703 40 CFR 60 335(b)(1)] Federally Enforceable Through Title V Permit
- 17 CO emissions shall be determined using EPA Method 10 or EPA Method 10B [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 18 Oxygen content of the exhaust gas shall be determined using EPA Method 3, EPA Method 3A, or EPA Method 20 [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 19 Ammonia (NH<sub>3</sub>) emissions shall be determined using BAAQMD Method ST 1B [District Rules 1081 2201 and 4102] Federally Enforceable Through Title V Permit
- 20 All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall as a minimum include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device [40 CFR 60 13(b)] Federally Enforceable Through Title V Permit
- 21 The results of each source test shall be submitted to the District within 60 days thereafter [District Rule 1081] Federally Enforceable Through Title V Permit
- 22 If this unit is not fired on PUC regulated natural gas the sulfur content of each natural gas fuel source shall be tested weekly to determine compliance with the fuel sulfur content limit. Upon the completion of eight consecutive weekly tests that demonstrate compliance with the fuel sulfur content limit, the sulfur content testing may be conducted on a monthly schedule. If any test shows non-compliance with the fuel sulfur content limit while on a monthly testing schedule, the testing schedule shall return to weekly testing until eight consecutive weeks demonstrate compliance with the fuel sulfur content limit [District Rule 2201 and 40 CFR 60 334(h)(3)] Federally Enforceable Through Title V Permit
- 23 If this unit is not fired on PUC regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 4084 or D 3246 [40 CFR 60 335(d)] Federally Enforceable Through Title V Permit
- 24 If this unit is fired on PUC-regulated natural gas then the owner, or operator shall maintain copies of the natural gas bills on file [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 25 Ammonia shall be injected whenever the selective catalytic reduction system catalyst temperature exceeds the minimum ammonia injection temperature recommended by the manufacturer [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

- 26 During initial performance testing the ammonia injection rate shall be monitored concurrently with each testing run to establish acceptable values and ranges that provide a reasonable assurance of ongoing compliance with the emissions limitations stated in this permit. The minimum ammonia injection rate(s) demonstrated during the initial NOx source test to result in compliance with the NOx emission limits shall be imposed as a condition in the Permit to Operate [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 27 If the ammonia injection rate is less than the minimum ammonia injection rate demonstrated during the initial compliance test, the permittee shall return the ammonia injection rate above the minimum ammonia injection rate established during compliance testing as soon as possible, but no longer than eight hours after detection. If the ammonia injection rate is not returned above the minimum ammonia injection rate established during compliance testing within eight hours, the permittee shall notify the District within the following one hour and conduct a source test within 60 days of the first exceedance to demonstrate compliance with the applicable emission limits at the reduced ammonia injection rate. In lieu of conducting a source test the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must correct the violation show compliance has been re established and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100 the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 28 The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 weekly using a portable emissions monitor that meets District specifications. If compliance with the NOx and CO emissions is demonstrated for eight consecutive weeks then the monitoring frequency will be reduced to monthly. If deviations are observed in two consecutive months, monitoring shall revert to weekly until eight consecutive weeks show no deviations. Monitoring shall not be required if the unit is not in operation i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within one day of restarting the unit unless monitoring has been performed within the last month if on a monthly monitoring schedule or within the week if on a weekly monitoring schedule [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 29 If the NOx and/or CO concentrations as measured by the permittee with a portable emissions monitor, exceed the permitted emission limits, the permittee shall notify the District and return the NOx and CO concentrations to the permitted emission limits as soon as possible but no longer than eight hours after detection. If the permittee's portable emission monitor readings continue to exceed the permitted emissions limits after eight hours the permittee shall notify the District within the following one hour and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred subject to enforcement action. The permittee must correct the violation show compliance has been re established and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 30 Permittee shall determine and record the ammonia slip monthly using a draeger tube, or equivalent ammonia detection device [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 31 The owner or operator shall submit a report of NOx excess emissions and periods of monitor downtime to the APCO semi-annually, and this report shall be postmarked by the 30th day following the end of each 6 month period [40 CFR 60.334(j)(5)] Federally Enforceable Through Title V Permit
- 32 NOx excess emissions shall be defined as any unit operating hour for which the average water to fuel injection rate, as measured by the continuous monitoring system falls below the water to fuel ratio specified in this permit including during startup and shutdown. NOx excess emissions shall also be defined as any 4 hour rolling unit operating hour in which the average ammonia injection rate falls below the minimum ammonia injection rate(s) specified in this permit not including startup or shutdown. NOx monitor downtime shall be defined as any operating hour during which the water to fuel ratio or ammonia injection rate is either not recorded or is invalid [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
- 33 Permittee shall maintain daily records of the occurrence and duration of each startup or shutdown and the total cumulative duration of all startups and shutdowns [District Rule 4703] 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



- 34 The owner or operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time length and reason for reduced load periods total hours of operation type and quantity of fuel used [District Rule 4703 and 40 CFR 60 332(a) and (b)] Federally Enforceable Through Title V Permit
- 35 The owner or operator of the stationary gas turbine system shall maintain records of the following (1) Water to fuel injection continuous monitoring system measurements (2) Ammonia injection rate monitoring system measurements and (3) Periodic NOx CO and O2 portable emissions monitor measurements [District Rules 2201 and 2520 9 4 2] Federally Enforceable Through Title V Permit
- 36 All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request [District Rules 2520 and 4703] Federally Enforceable Through Title V Permit
- 37 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements San Joaquin County Rule 108 1 as of the date of permit issuance A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit
- 38 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements San Joaquin Country Rule 407 as of the date of permit issuance A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
- 39 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements 40 CFR 60 7(b), District Rule 1081 (as amended 12/16/93) as of the date of permit issuance A permit shield is granted from these requirements [District Rule 2520 13 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 19-6

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

ONE 12 000 GALLON ABOVE GROUND SALT SLURRY STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 Visible emissions from the sock filter serving the vent of the salt storage tank shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 A spare sock filter shall be kept on the premises [District Rule 2201] Federally Enforceable Through Title V Permit
- 4 The quantity of salt received shall not exceed 60,000 pounds during any one day and shall not exceed 120,000 pounds during any one month [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 PM10 emission rate shall not exceed 0.003 pounds per ton of salt received [District Rule 2201] Federally Enforceable Through Title V Permit
- 6 A minimum of 7.7 gpm of water shall be added during transfer of the salt from the trucks to the storage tank [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 The sock filter shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 8 The permittee shall maintain a daily record of the date and quantity of salt received [District Rule 2201] Federally Enforceable Through Title V Permit
- 9 The permittee shall maintain records of the sock filter maintenance, inspections, and repair. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 10 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N-238 24-6

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

FIRST GRIND OVERFLOW TANK SERVED BY A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER AND A BIOTON MODEL 2-2-34 BIOFILTER (THE CONTROL EQUIPMENT ALSO SERVES N-238 33)

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 Each scrubber shall have an operational differential pressure gauge [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 Each scrubber liquid supply (at inlet to scrubber) shall have an operational flow meter [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 5 A minimum liquid to gas ratio of 4 gpm per 1 000 cfm shall be provided for each scrubber [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 6 If the liquid to gas ratio of the scrubber is less than 4 gpm per 1 000 cfm during operation, the permittee shall correct the liquid to gas ratio to a minimum of 4 gpm per 1 000 cfm as soon as possible, but no longer than 1 hour of operation after detection. If the liquid to gas ratio continues to be less than 4 gpm per 1 000 cfm after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 7 The emissions from this unit shall be ducted to the control devices at all times that the equipment is in operation except for SOx scrubber and biofilter maintenance or a complete biofilter bed change out [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 Except for SOx scrubber and biofilter maintenance or a complete biofilter bed change out, the combined SOx emissions from the equipment operating under Permits to Operate N 238 33 and N 238-24 shall not exceed 1.25 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 9 Except for SOx scrubber and biofilter maintenance, or a complete biofilter bed change out, the combined VOC emissions from the equipment operating under Permits to Operate N 238 33 and N-238 24 shall not exceed 0.33 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 10 The exhaust gases may be bypassed through the bypass duct prior to the SOx scrubber in the event of SOx scrubber or biofilter maintenance or for complete biofilter bed change out [District NSR Rule] Federally Enforceable Through Title V Permit
- 11 The exhaust gases may be bypassed for a period not to exceed 200 hours per year for maintenance of the SOx scrubber or the biofilter [District NSR Rule] Federally Enforceable Through Title V Permit
- 12 The exhaust gases may be bypassed for a period not to exceed 340 hours per year for the complete biofilter bed change out [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 13 During operation the biofilter temperature shall not exceed 110 degrees F and shall not be less than 60 degrees F [40 CFR part 64] Federally Enforceable Through Title V Permit
- 14 The temperature of the air flow through the biofilter media shall be monitored daily during operation [40 CFR part 64] Federally Enforceable Through Title V Permit
- 15 The temperature gauge (probe) monitoring the air flow through the biofilter media shall be maintained per manufacturer s recommendations [40 CFR part 64] Federally Enforceable Through Title V Permit
- 16 Biofilter shall be thoroughly inspected annually for biofilter media deterioration and shall be replaced or repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 17 Records of the SOx scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 18 Records of the biofilter temperature shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 19 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed from the SOx scrubber and the biofilter or when a complete biofilter bed change out was performed [District NSR Rule] Federally Enforceable Through Title V Permit
- 20 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64 7 for the scrubbers [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 21 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 for the scrubbers [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 22 If the District or EPA determines per 40 CFR 64 7(d)(2) that a Quality Improvement Plan is required, the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 23 All records shall be retained for a minimum of 5 years and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238-25 4

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

GLUTEN DEWATERING FILTER AND VACUUM SYSTEMS WITH A SOX SCRUBBER ON THE EXHAUST STREAM

## PERMIT UNIT REQUIREMENTS

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- 1 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 The pH of the scrubbing liquid shall be maintained at 6.5 or greater with a purge flow rate of 6.0 gallons per minute. A continuous monitoring device shall be installed and maintained to measure the pH of the scrubbing liquid [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 A minimum liquid to gas ratio of 17.7 gpm per 1,000 cfm shall be provided for this scrubber or the liquid recirculation rate shall be at least 230 gpm for sufficient contact [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 A liquid flow meter to monitor the liquid recirculation flow rate shall be installed and maintained in proper working order [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 The SOx emissions shall not exceed 0.146 pounds per hour while the exhaust gases are passed through the SOx scrubber [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 The SOx emissions shall not exceed 0.250 pounds per hour while the exhaust gases are bypassed from the SOx scrubber during scrubber maintenance [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 The VOC emissions shall not exceed 2.083 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 The exhaust gases may be bypassed around the SOx scrubber in the event of SOx scrubber maintenance for a period not to exceed 48 hours per year [District NSR Rule] Federally Enforceable Through Title V Permit
- 9 Liquid flow meter shall be observed and recorded weekly during operation of this unit [District Rule 2520.9.3.2] Federally Enforceable Through Title V Permit
- 10 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed around the SOx scrubber [District NSR Rule] Federally Enforceable Through Title V Permit
- 11 Records of the SOx scrubber liquid flow rate shall be observed and recorded weekly during operation of this unit. The records shall include identification of the equipment, date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520.9.4.2] Federally Enforceable Through Title V Permit
- 12 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520.9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 29 3

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

SULFUROUS ACID PLANT CONSISTING OF AN ELEMENTAL SULFUR BURNER AND TWO ABSORBERS VENTED TO A LUNDBERG SCRUBBER WITH A MIST ELIMINATOR TWELVE STEEP TANKS (69 000 GAL EACH) AND ONE DRAW TANK VENTED TO THE LUNDBERG SCRUBBER SERVING THE ACID PLANT

## PERMIT UNIT REQUIREMENTS

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- 1 Scrubber sprays and/or nozzles shall be maintained in optimum working condition [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 The scrubber and the scrubber fluid shall be maintained such that the scrubber provides at least 99% control of the SO<sub>2</sub> emissions [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The mist eliminator shall be properly maintained and must be operating during the sulfurous acid production process [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 The sulfur dioxide (SO<sub>2</sub>) emissions concentration shall not exceed 0.7 pounds per ton of elemental sulfur burned in the sulfur burner [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 No more than 6,000 pounds of elemental sulfur shall be burned in the sulfur burner during any one day [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 Sulfur compound emissions shall not exceed 0.2% by volume 2000 ppmv, on a dry basis averaged over 15 consecutive minutes [District Rule 4801] Federally Enforceable Through Title V Permit
- 7 Records of the daily amount of elemental sulfur burned shall be kept on the premises Records shall be maintained for a period of at least five years and shall be made available for District inspection upon request [District Rules 2201 and 2520.9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 30 2

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

SODA ASH RECEIVING AND STORAGE WITH ONE (1) 60 000 GALLON STORAGE TANK SERVED BY A DUCON MULTIVANE WET SCRUBBER (TYPE L SIZE 18)

## PERMIT UNIT REQUIREMENTS

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- 1 There shall be no visible emissions from the scrubber [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 The scrubber shall have operational differential pressure indicator [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 Scrubber sprays and/or nozzles shall be maintained in optimum working condition [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 All emissions from soda ash slurry storage tank shall be vented through the scrubber [District NSR Rule] Federally Enforceable Through Title V Permit
- 5 The PM10 emission concentration shall not exceed 0 002 lbs per ton of material received [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 The maximum amount of material received shall not exceed 54 tons in any one day [District NSR Rule] Federally Enforceable Through Title V Permit
- 7 Daily records of the amount of material received shall be maintained, retained on the premises for a minimum of five years and made available for District inspection upon request [District Rules 2201 and 2520 9 4 2] Federally Enforceable Through Title V Permit
- 8 Records of the PM10 scrubber pressure differential shall be observed and recorded weekly during soda ash unloading The records shall include identification of the equipment, date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT N 238 33 4

EXPIRATION DATE 03/31/2014

## EQUIPMENT DESCRIPTION

GLUTEN PROCESSING OPERATION CONSISTING OF GLUTEN DRYER (DAVENPORT MODEL RSTD) A GLUTEN CONDITIONER AND ASSOCIATED CONVEYING SYSTEM THE GLUTEN CONDITIONER IS VENTED TO THE GLUTEN DRYER WHICH IS SERVED BY A CYCLONE FOLLOWED BY A PARTICULATE MATTER SCRUBBER A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER AND A BIOTON MODEL 2-2-34 BIOFILTER (THE SOX & VOC CONTROLS ARE SHARED WITH PERMIT N 238 24)

## PERMIT UNIT REQUIREMENTS

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- 1 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
- 2 Each scrubber shall have an operational differential pressure gauge [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 Each scrubber liquid supply (at inlet to scrubber) shall have an operational flow meter [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 The scrubber sprays and/or nozzles shall be strictly maintained in optimum working condition [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 5 A minimum liquid to gas ratio of 4 gpm per 1,000 cfm shall be provided for each scrubber [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 6 If the liquid to gas ratio of the scrubber is less than 4 gpm per 1,000 cfm during operation, the permittee shall correct the liquid to gas ratio to a minimum of 4 gpm per 1,000 cfm as soon as possible but no longer than 1 hour of operation after detection. If the liquid to gas ratio continues to be less than 4 gpm per 1,000 cfm after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 7 The emissions from this unit shall be ducted to the control devices at all times that the equipment is in operation except for SOx scrubber and biofilter maintenance or a complete biofilter bed change out [District NSR Rule] Federally Enforceable Through Title V Permit
- 8 Except for SOx scrubber and biofilter maintenance, or a complete biofilter bed change out, the combined SOx emissions from the equipment operating under Permits to Operate N 238 33 and N 238-24 shall not exceed 125 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 9 Except for SOx scrubber and biofilter maintenance, or a complete biofilter bed change out, the combined VOC emissions from the equipment operating under Permits to Operate N 238-33 and N 238-24 shall not exceed 0.33 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 10 PM10 emissions shall not exceed 1.04 pounds per hour [District NSR Rule] Federally Enforceable Through Title V Permit
- 11 The exhaust gases may be bypassed through the bypass duct after the particulate scrubber and prior to the SOx scrubber in the event of SOx scrubber or biofilter maintenance or for complete biofilter bed change out [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



- 12 The exhaust gases may be bypassed for a period not to exceed 200 hours per year for maintenance of the SOx scrubber or the biofilter [District NSR Rule] Federally Enforceable Through Title V Permit
- 13 The exhaust gases may be bypassed for a period not to exceed 340 hours per year for the complete biofilter bed change out [District NSR Rule] Federally Enforceable Through Title V Permit
- 14 The District shall be notified of any breakdown conditions in accordance with Rule 1100 (Equipment Breakdown) [District Rule 1100]
- 15 During operation the biofilter temperature shall not exceed 110 degrees F and shall not be less than 60 degrees F [40 CFR part 64] Federally Enforceable Through Title V Permit
- 16 The temperature of the air flow through the biofilter media shall be monitored daily during operation [40 CFR part 64] Federally Enforceable Through Title V Permit
- 17 The temperature gauge (probe) monitoring the air flow through the biofilter media shall be maintained per manufacturer's recommendations [40 CFR part 64] Federally Enforceable Through Title V Permit
- 18 Biofilter shall be thoroughly inspected annually for biofilter media deterioration and shall be replaced or repaired as needed [District Rule 2520 9 3 2] Federally Enforceable Through Title V Permit
- 19 Records shall be kept indicating the date and time and duration of time maintenance was performed such that the exhaust gases were bypassed from the SOx scrubber and the biofilter or when a complete biofilter bed change out was performed [District NSR Rule] Federally Enforceable Through Title V Permit
- 20 Records of the SOx scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment, date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520 9 4 2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
- 21 Records of the PM10 particulate scrubber liquid flow rate shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment date of inspection, corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 22 Records of the biofilter temperature shall be observed and recorded daily during operation of this unit The records shall include identification of the equipment date of inspection corrective action taken and identification of the individual performing the inspection [District Rule 2520, 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit
- 23 The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64 7 for the scrubbers [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 24 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 for the scrubbers [40 CF Part 64] Federally Enforceable Through Title V Permit
- 25 If the District or EPA determines per 40 CFR 64 7(d)(2) that a Quality Improvement Plan is required the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
- 26 All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request [District Rule 1070 and District Rule 2520 9 4 2 and 40 CFR part 64] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT C

Detailed Facility List

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**Detailed Facility Report**  
For Facility=238  
Sorted by Facility Name and Permit Number

INGREDION INCORPORATED 1021 INDUSTRIAL DR STOCKTON CA 95206	FAC # STATUS TELEPHONE	N 238 A	TYPE TOXIC ID	TitleV 20302	EXPIRE ON AREA INSP DATE	03/31/2014 16 / 04/14
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N 238 1-4	611 hp	3020-01 F	1	607 00	607 00	A	CORN RECEIVING AND STORAGE OPERATION CONSISTING OF RECEIVING PITS VARIOUS CONVEYING EQUIPMENT AND THREE HOPPERS ALL VENTED TO A CARTER DAY MODEL 376 RF8 BAGHOUSE AND THREE STORAGE BINS EACH EQUIPPED WITH A BIN VENT FILTER THE THIRD STORAGE SILO (#3) IS SERVED BY A DCL INC MODEL BV25 58 112A912Z TO BAGHOUSE
N 238 2 2	286 HP	3020 01 E	1	412 00	412 00	A	CORN CLEANING OPERATION WITH THREE DRAG CONVEYORS AND ONE ELEVATOR VENTED TO A BIN FILTER ASPERATED CORN CLEANER TWO HOPPERS AND VARIOUS CONVEYORS VENTED TO A CARTER DAY BAGHOUSE AND ONE CORN CLEANINGS HOPPER VENTED TO A CARTER DAY BAGHOUSE
N 238 3 0	344 5 HP	3020 01 E	1	412 00	412 00	D	BULK FEED LOADOUT VENTED TO A BAGHOUSE PERMIT DELETED PER SOURCE REQUEST JS 3/12/04
N 238-4 0	426 HP	3020 01 F	1	607 00	607 00	D	FEED DRYER #1 SERVED BY A SCRUBBER
N 238 5 0	298 5 HP	3020 01 E	1	412 00	412 00	D	FEED DRYER #2 SERVED BY A SCRUBBER
N 238-6 0	31 5 HP	3020 01 B	1	117 00	117 00	D	BULK FEED LOADOUT SERVED BY TWO (2) CARTER DAY BAGHOUSES DELETED PER SOURCE REQUEST JS 3/12/04
N 238 7-4	226 5 HP	3020 01 E	1	412 00	412 00	D	GLUTEN DRYER SERVED BY A CYCLONE A PM SCRUBBER A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER AND A BIOTON MODEL 2 2 34 BIOFILTER (THE SOX & VOC CONTROLS ALSO SERVE N 238 24) ( PERMIT DELETED PER CONDITION 2 ON ATC N 238 33 0 DB 02/13/04 )
N 238 8 2	106 5 HP	3020 01 D	1	314 00	314 00	A	GLUTEN MILLING TRANSFER AND STORAGE SERVED BY A CARTER DAY DUST COLLECTOR TYPE R F
N 238 9-4	155 hp	3020 01 D	1	314 00	314 00	A	BULK GLUTEN LOADOUT SYSTEM WITH A STATIONARY HOOD AND A W W SLY MODEL XP 10 RETRACTABLE LOADING SPOUT SERVED BY AN ALANCO MODEL 378 RLP FILTER BAGHOUSE
N 238 10 7	21 MMBtu/hr	3020-02 H	1	1 030 00	1 030 00	A	STARCH FLASH DRYER EQUIPPED WITH A 21 MMBTU/HR COEN QLN BURNER AND TWO STARCH RECOVERY CYCLONES SERVED BY TWO DUCON MULTIVANE GAS SCRUBBERS TYPE L MODEL II
N 238 11 3	543 5 HP	3020-01 F	1	607 00	607 00	A	STARCH TRANSFER AND STORAGE SERVED BY A CARTER DAY DUST COLLECTOR TYPE R F
N 238 12 2	29 8 HP	3020-01 B	1	117 00	117 00	A	BULK STARCH LOADOUT SERVED BY A CARTER DAY DUST COLLECTOR
N 238 13-6	176 HP	3020-01 D	1	314 00	314 00	A	ONE (1) GERM DRYER SERVED BY A CYCLONE A DUCON TYPE L MODEL II PARTICULATE SCRUBBER AND A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER

**Detailed Facility Report**

For Facility=238

Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N 238 14 2	73 HP	3020 01 C	1	197 00	197 00	A	GERM TRANSFER AND STORAGE SERVED BY A CARTER DAY BAGHOUSE TYPE R F
N 238 15 2	8 HP	3020 01 A	1	87 00	87 00	A	BULK GERM LOADOUT
N 238 16 2	5 500 CU FT (41 000 GALLONS)	3020 05 C	1	135 00	135 00	A	FILTER AID RECEIVING AND STORAGE SERVED BY A CARTER DAY BAGHOUSE TYPE R F
N 238 17 2	54 HP	3020 01 C	1	197 00	197 00	A	CARBON RECEIVING AND STORAGE SERVED BY A CARTER DAY BAGHOUSE MODEL 28 RF6
N 238 18-6	2 800 kW	3020 08A C	1	1 533 00	1 533 00	A	SOLAR TURBINE INCORPORATED CENTAUR 2800 KW (ISO) CONTINUOUS DUTY INDUSTRIAL GAS TURBINE GENERATOR AND A DELTA WASTE HEAT BOILER MODEL 3L 227 SERVED BY A SELECTIVE CATALYTIC REDUCTION SYSTEM
N 238 19-6	21 000 gallons storage tank	3020 05 B	1	93 00	93 00	A	ONE 12 000 GALLON ABOVE GROUND SALT SLURRY STORAGE TANK
N 238 24-6	CONTAINER 6 800 GALS	3020-05 B	1	93 00	93 00	A	FIRST GRIND OVERFLOW TANK SERVED BY A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER AND A BIOTON MODEL 2 2 34 BIOFILTER (THE CONTROL EQUIPMENT ALSO SERVES N 238 33)
N 238 25-4	375 hp electric motor	3020 01 E	1	412 00	412 00	A	GLUTEN DEWATERING FILTER AND VACUUM SYSTEMS WITH A SOX SCRUBBER ON THE EXHAUST STREAM
N 238 28 0	117 HP IC ENGINE	3020 10 B	1	117 00	117 00	D	ONE (1) EMERGENCY STANDBY SULLAIR AIR COMPRESSOR MODEL 375 DP SERVED BY ONE (1) 117 HP DIESEL ENGINE MODEL 50435001 *** DELETED PER 10/11/96 LETTER FROM FACILITY
N 238 29 3	356 HP	3020 01 E	1	412 00	412 00	A	SULFUROUS ACID PLANT CONSISTING OF AN ELEMENTAL SULFUR BURNER AND TWO ABSORBERS VENTED TO A LUNDBERG SCRUBBER WITH A MIST ELIMINATOR TWELVE STEEP TANKS (69 000 GAL EACH) AND ONE DRAW TANK VENTED TO THE LINDBERG SCRUBBER SERVING THE ACID PLANT
N 238 30-2	60 000 GALLONS	3020 05 D	1	185 00	185 00	A	SODA ASH RECEIVING AND STORAGE WITH ONE (1) 60 000 GALLON STORAGE TANK SERVED BY A DUCON MULTIVANE WET SCRUBBER (TYPE L SIZE 18)
N 238 32 0	28 800 kBTu/hr	3020 02 H	1	1 030 00	1 030 00	D	28 8 MMBTU/HR DOLEE TECHNOLOGIES PORTABLE BOILER SERVED BY AN ALEZTA CORPORATION MODEL 22 2SO 30/30 ULTRA LOW NOX BURNER
N 238 33-4	226 5 HP	3020 01 E	1	412 00	412 00	A	GLUTEN PROCESSING OPERATION CONSISTING OF GLUTEN DRYER (DAVENPORT MODEL RSTD) A GLUTEN CONDITIONER AND ASSOCIATED CONVEYING SYSTEM THE GLUTEN CONDITIONER IS VENTED TO THE GLUTEN DRYER WHICH IS SERVED BY A CYCLONE FOLLOWED BY A PARTICULATE MATTER SCRUBBER A PPC INDUSTRIES MODEL 616PFG SOX SCRUBBER AND A BIOTON MODEL 2 2 34 BIOFILTER (THE SOX & VOC CONTROLS ARE SHARED WITH PERMIT N 238 24)

**Detailed Facility Report**  
For Facility=238  
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N 238 35 1	28 8 KBTU/HR TREU BOILER	3020-02 H	1	1 030 00	1 030 00	D	28 8 MMBTU/HR NATURAL GAS FIRED BOILER EQUIPPED WITH AN ALZETA MODEL 22 2SO 30/30 ULTRA LOW NOX BURNER USED AS TEMPORARY REPLACEMENT EMISSIONS UNIT (TREU) FOR PERMIT UNITS N 238 18 3 AND N 802 1
N 238 37 1	28 8 MMBtu/Hr	3020 02 H	1	1 030 00	1 030 00	D	28 8 MMBTU/HR NATURAL GAS FIRED BOILER EQUIPPED WITH AN ALZETA MODEL 22 2SO 30/30 ULTRA LOW NOX BURNER SYSTEM (TEMPORARY REPLACEMENT EMISSION UNIT)
N 238 38 1	28 8 MMBtu/hr	3020 02 H	1	1 030 00	1 030 00	D	28 8 MMBTU/HR NATURAL GAS FIRED BOILER EQUIPPED WITH AN ALZETA MODEL 22 2SO 30/30 ULTRA LOW NOX BURNER SYSTEM OR DISTRICT APPROVED EQUIVALENT (TEMPORARY REPLACEMENT EMISSION UNIT FOR N 238 18 AND/OR N-802 1
N 238 39 1	28 8 MMBtu/hr	3020 02 H	1	1 030 00	1 030 00	D	28 8 MMBTU/HR NATURAL GAS FIRED BOILER EQUIPPED WITH AN ALZETA MODEL 22 2SO 30/30 ULTRA LOW NOX BURNER SYSTEM OR DISTRICT APPROVED EQUIVALENT (TEMPORARY REPLACEMENT EMISSION UNIT FOR N 238 18 AND/OR N 802 1)

Number of Facilities Reported 1