



**OCT 15 2015**

Mr. Lloyd Fry  
American Yeast Corp.  
5455 District Blvd  
Bakersfield, CA 93313

**Re: Notice of Preliminary Decision – Title V Permit Renewal  
District Facility # S-498  
Project # S-1142259**

Dear Mr. Fry:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for American Yeast Corp. at 5455 District Blvd, 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. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,

  
Arnaud Marjollet  
Director of Permit Services

AM: wj/ya

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

**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT**

Proposed Title V Permit Renewal Evaluation  
American Yeast Corp.  
S-498

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**TITLE V PERMIT RENEWAL EVALUATION**  
**Yeast Manufacturing**

**Engineer:** William Jones

**Date:** 10/6/15

**Facility Number:** S-498

**Facility Name:** American Yeast Corp.

**Mailing Address:** 5455 District Blvd, Bakersfield, CA 93313

**Contact Name:** Lloyd Fry

**Phone:** 661-834-1050

**Responsible Official:** Lloyd Fry

**Title:** Plant Manager

**Project # :** S-1142259

**Deemed Complete:** 6/02/14

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**I. PROPOSAL**

American Yeast Corp. (AYC) was issued a Title V permit on 3/26/2001. 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**

AYC is located at 5455 District Blvd in Bakersfield, CA 93313.

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

### V. SCOPE OF EPA AND PUBLIC REVIEW

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

### VI. FEDERALLY ENFORCEABLE REQUIREMENTS

#### A. Rules Updated

- District Rule 2020 Exemptions, (Amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended April 21, 2011)
- 40 CFR Part 82, Subpart B Stratospheric Ozone (June 25, 2013)
- 40 CFR Part 82, Subpart F Stratospheric Ozone (June 25, 2013)
- 40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (amended February 16, 2012)

#### B. Rules Removed

- None

#### C. Rules Added

- District Rule 2410, Prevention of Significant Deterioration (adopted June 16, 2011, effective November 26, 2012)

- District Rule 4310, Advance Emission Reduction Options for Boilers, Steam Generators and Process Heaters greater than 5.0 MMBtu/hr (adopted October 16, 2008)

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

- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended May 21, 1992)
- District Rule 4305, Boilers, Steam Generators, Process Heaters (amended August 21, 2003)
- District Rule 4306, Boilers, Steam Generators, Process Heaters (amended March 17, 2005 = amended October 16, 2008)
- District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater Than 5.0 MMBtu/hr (adopted October 16, 2008)
- District Rule 4601, Architectural Coatings (amended October 31, 2001 December 17, 2009)

- District Rule 4623, Storage of Organic Liquids, (amended May 19, 2005)
- District Rule 8011, General Requirements (amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended July 20, 2004)
- 40 CFR Part 64, Compliance Assurance Monitoring (amended October 22, 1997)

## 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

- None

### B. Rules Not Updated

- District Rule 4102, Nuisance (December 17, 1992)

## VIII. PERMIT REQUIREMENTS

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

### A. District Rule 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 affect on current permit requirements and will therefore not be addressed in this evaluation.

### 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 2410 - Prevention of Significant Deterioration

The prevention of significant deterioration (PSD) program is a construction permitting program for new major stationary sources and major

modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant. The provisions of this rule apply to any source and the owner or operator of any source subject to any requirement under Title 40 Code of Federal Regulations (40 CFR) Part 52.21 as incorporated into this rule.

The rule did not create new requirements, but merely transfers the authority for the 40 CFR Part 52.21 requirements to the District. Prior to adoption of this rule, that authority was vested with the USEPA. This action does not involve construction and thus does not trigger additional PSD requirements for this source. Therefore, the facility is not subject to this rule and no further discussion is required.

**D. District Rule 2520 - Federally Mandated Operating Permits**

**Greenhouse Gas Requirements**

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

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

Note that Rule 4320 was adopted on October 16, 2008, prior to this facility's previous Title V renewal. However there are certain requirements that took effect after the previous Title V renewal occurred, so compliance with this rule will be discussed.

Rule 4320 limits NO<sub>x</sub>, CO, SO<sub>2</sub> and PM<sub>10</sub> emissions from boilers, steam generators and process heaters rated greater than 5 MMBtu/hr. Permit units S-488-6-8, (for a 20.1 MMBtu/hr. natural gas-fired boiler), and permit units -8-6 (for a 12.6 MMBtu/hr. natural gas-fired boiler) are subject to this rule.

A Rule 4320 Emission Control Plan (ECP) dated June 26, 2014 was submitted and was approved on 6/24/14 for this facility. A review of the ECP indicates that the two units comply with the requirements. As is explained below, units S-488-6-9, -8-7 are subject to the annual emission fee.



## **Section 5 - Requirements**

Section 5.1 states that an operator of units subject to this rule shall comply with all applicable requirements of the rule and one of the following, on a unit-by-unit basis:

- 5.1.1 Operate the unit to comply with the emission limits specified in Sections 5.2 and 5.4; or
- 5.1.2 Pay an annual emissions fee to the District as specified in Section 5.3 and comply with the control requirements specified in Section 5.4; or
- 5.1.3 Comply with the applicable Low-use Unit requirements of Section 5.5.

AYC has selected to Pay annual emissions fee for unites S-488-6-9, and '8-7. Therefore they are subject to sections 5.3 and 5.4

### **Section 5.3 – Annual Fee Calculation**

This section states that on and after January 1, 2010, an operator, with units that will comply under Section 5.1.2, shall pay a total annual fee to the District based on the total NOx emissions from those units.

Compliance with this section will be assured with the addition of the following condition 45 on permit S-498-6-9, and condition 29 on permit S-498-8-7:

- Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320]

### **Section 5.4 - Particulate Matter Control Requirements**

The particulate matter control requirement of Section 5.4 applies to units in this project. The requirements of this section will be satisfied units S-488-6, and '8 by complying with Section 5.4.1.2. This section requires AYC to limit the fuel sulfur content of the fuel to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet. This will be satisfied by limiting the boilers to operating exclusively on PUC-quality natural gas.

Per section 5.4.2 liquid fuel shall be used only during PUC quality natural gas curtailment periods, provided the requirements of Sections 4.2 and 6.1.5 are

met and the fuel contains no more than 15 ppm sulfur, as determined by the test method specified in Section 6.2.

Conditions 5, 6 and 11 on the permit S-498-6-9, will assure compliance with these sections 5.4.1.2 and 5.4.2:

- This boiler shall only be fired on PUC-quality natural gas or fuel oil as a backup fuel. [District Rule 4305, 4306 and 4320] Y
- The unit shall be fired on fuel oil as backup fuel only during natural gas curtailment for no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing. [District Rules 4305, and 4306] Y

In addition, condition 11 will be added to permit S-498-6-9:

- The sulfur content of Liquid fuel shall not exceed 15 ppm sulfur. [District Rule 4320] Y

Permit S-498-8-7 is Dormant, and not allowed to operate; therefore it will be required to comply with the requirements of this section prior to becoming operable.

### **Section 5.6 - Startup and Shutdown Provisions**

Section 5.6 states that on and after the full compliance deadline specified in Section 5.0, the applicable emission limits of Sections 5.2 Table 1 and 5.5.2 shall not apply during startup or shutdown provided an operator complies with the requirements specified in Sections 5.6.1 through 5.6.5.

Section 5.6 specifies startup and shutdown provisions. Section 5.6.1 states that the duration of each startup or each shutdown shall not exceed two hours, except as provided in Section 5.6.3, whereby the applicant applies and received approval for more than two hours for each startup or each shutdown.

The applicant has not proposed startup and shutdown duration limits greater than those specified in section 5.6.1.

### **Section 6.1 - Recordkeeping**

Section 6.1 requires that the records required by Sections 6.1.1 through 6.1.5 shall be maintained for five calendar years and shall be made available to the APCO and EPA upon request.

Compliance with this section is assured with the existing conditions 39, 40 and 41 on permit S-498-6-9:

- Records of daily and annual backup fuel consumption consisting of the date the boiler operated on fuel oil as backup fuel and the amount of time the boiler was operated, in hours, on fuel oil as backup fuel shall be maintained. [District Rules 4305, 4306, and 4320] Y
- Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, and 4320] Y
- The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, and 4320] Y

Permit S-498-8-7 is Dormant, and not allowed to operate; therefore it will be required to comply with the requirements of this section prior to becoming operable.

### **Section 6.2 - Test Methods**

Section 6.2 identifies the following test methods as District-approved source testing methods.

Compliance with this section will be better assured by adding the following condition 25 on permit S-498-6-9:

- Sulfur content of liquid fuel shall be determined using American Society for Testing and Materials (ASTM) D 6920-03 or ASTM D 5453-99. [District Rule 4320]

Permit S-498-8-7 is Dormant, and not allowed to operate; therefore it will be required to comply with the requirements of this section prior to becoming operable.

#### **Section 6.4 - Emission Control Plan (ECP)**

Section 6.4 requires the operator of any unit to submit to APCO for approval an Emissions Control Plan no later than January 1, 2010. The applicant already submitted the required ECP.

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

This rule incorporates NSPS from Part 60, Chapter 1, Title 40, Code of Federal Regulations (CFR); and applies to all new sources of air pollution and modifications of existing sources of air pollution listed in 40 CFR Part 60. 40 CFR Part 60, Subpart Dc applies to Small Industrial-Commercial-Institutional Steam Generators between 10 MMBtu/hr. and 100 MMBtu/hr. (post-6/9/89 construction, modification or, reconstruction). Subpart Dc has standards for SO<sub>x</sub> and PM<sub>10</sub>. The boilers units S-498-6-9, and '8-7 are subject to Subpart Dc requirements.

However, the updated sections of this subpart including 60.42c, 60.43c, 60.45c, and 60.47c do not apply to boilers burning natural gas.

#### **G. 40 CFR Part 82, Subparts B and F, Stratospheric Ozone**

These regulations apply to servicing motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC). Sections of this regulation were amended in 2013. The following Conditions 27, and 28 on permit S-498-0-4 assure compliance with the requirements:

- 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] Y
- 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] Y

### **IX. PERMIT SHIELD**

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit

is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

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

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

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

The applicant is not proposing any new permit shields. Permit shields that refer to rules that have been amended have been removed as they no longer apply.

**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: S-498-0-4

EXPIRATION DATE: 11/30/2014

## 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: AMERICAN YEAST CORPORATION  
Location: 5455 DISTRICT BLVD @ ARMSTRONG, BAKERSFIELD, CA  
S-498-0-4, Oct 7 2015 2:22PM - JONES/W

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

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

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District 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. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin March 30 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: S-498-1-7

SECTION: 15 TOWNSHIP: 30S RANGE: 27E

**EQUIPMENT DESCRIPTION:**

FERMENTATION PROCESS INCLUDING TWO PURE CULTURE FERMENTORS

EXPIRATION DATE: 11/30/2014

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## PERMIT UNIT REQUIREMENTS

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1. Only one pure culture fermentor may be used at any one time. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Permittee shall maintain records of when each of the pure culture fermentation vessels are used in production, and shall maintain such records readily available for District inspection upon request for a period of 5 years. [District Rule 2201] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-498-6-9

EXPIRATION DATE: 1/30/2014

SECTION: 15 TOWNSHIP: 30S RANGE: 27E

**EQUIPMENT DESCRIPTION:**

20. 1 MMBTU/HR CLEAVER BROOKS MODEL DELTA WT400XA-5 NATURAL GAS/OIL-FIRED BOILER EQUIPPED WITH COEN LOW-NOX BURNERS

**PERMIT UNIT REQUIREMENTS**

1. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
2. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel oil as backup fuel combusted in the unit shall be installed, utilized and maintained. [District Rules 4305, and 4306] Federally Enforceable Through Title V Permit
3. The boiler and appurtenances, including fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This permit unit shall not operate while S-498-8 is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This boiler shall only be fired on PUC-quality natural gas or fuel oil as a backup fuel. [District Rule 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. The unit shall be fired on fuel oil as backup fuel only during natural gas curtailment for no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
7. Total facility fuel oil consumption shall not exceed 1,417 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Maximum annual heat input of the unit shall not exceed 30 billion Btu per calendar year. [District Rule 2201, 4305 and 4306] Federally Enforceable Through Title V Permit
9. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub> nor shall the concentration of sulfur compounds in the exhaust exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with these requirements the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not to exceed 0.5% sulfur by weight or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude) or by source testing in combination with fuel analysis. [District Rules 2520, and 4301] Federally Enforceable Through Title V Permit
10. Fuel oil sulfur content shall not exceed 1.2% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The sulfur content of Liquid fuel shall not exceed 15 ppm sulfur. [District Rule 4230] 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. Combined daily emissions from permit units #S-498-6 and -8 shall not exceed the following: SOx (as SO<sub>2</sub>): 275.00 lb/day; and NOx (as NO<sub>2</sub>): 107.52 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 grain/dscf, 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, and 4301] Federally Enforceable Through Title V Permit
14. Emissions from the boiler when fired on natural gas shall not exceed any of the following limits: 30 ppmvd NOx @ 3% O<sub>2</sub> or 0.036 lb-NOx/MMBtu, 0.00285 lb-SOx/MMBtu, 0.0076 lb-PM10/MMBtu, 400 ppmvd CO @ 3% O<sub>2</sub> or 0.317 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
15. Emissions from the boiler when fired on fuel oil shall not exceed any of the following limits: 150 ppmvd NOx @ 3% O<sub>2</sub> or 0.215 lb-NOx/MMBtu, 0.57 lb-SOx/MMBtu, 0.015 lb-PM10/MMBtu, 400 ppmvd CO @ 3% O<sub>2</sub> or 0.317 lb-CO/MMBtu, or 0.0015 lb-VOC/MMBtu. [District Rule 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
16. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Source testing to measure natural gas-combustion NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
19. 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
20. Permittee shall test sulfur content of fuel oil no less than once annually, in years when fuel oil is used, and keep records of the results. [District Rule 2201] Federally Enforceable Through Title V Permit
21. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 19, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
22. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, and 4306] Federally Enforceable Through Title V Permit
23. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
24. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
25. Sulfur content of liquid fuel shall be determined using American Society for Testing and Materials (ASTM) D 6920-03 or ASTM D 5453-99. [District Rule 4320]
26. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

27. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520] Federally Enforceable Through Title V Permit
28. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the following test methods shall be used: For gaseous fuels, the sulfur content shall be determined using ASTM D1072, D4084, D3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. For liquid fuels, the sulfur content shall be determined using ASTM D4294. The fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by the following methods: For gaseous fuels use ASTM D1826 or D1945 in conjunction with ASTM D3588. For liquid hydrocarbon fuels use ASTM D240. [Districts Rules 4305, and 4306] Federally Enforceable Through Title V Permit
29. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520] Federally Enforceable Through Title V Permit
30. The stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis, using District approved portable analyzers. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
31. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, and 4306] Federally Enforceable Through Title V Permit
32. If the unit is fired on fuel oil as backup fuel for a period exceeding 48 cumulative hours in a calendar year, the permittee shall monitor and record the stack concentration of NOx at least once during that year using an APCO approved portable NOx analyzer. Monitoring for backup fuel NOx emissions shall not be required when the unit is operating on primary fuel, i.e. the unit need not be fired on backup fuel solely to perform monitoring. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
33. Backup fuel NOx emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
34. If the NOx and CO concentrations, as measured by the portable analyzer, exceed the allowable emission rate, the permittee or third party shall notify the District and take corrective action as soon as possible, but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
35. The portable analyzer shall be calibrated prior to each use with a two-point calibration method (zero and span). Calibration shall be performed with certified calibration gases. [District Rule 2520] Federally Enforceable Through Title V Permit
36. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

37. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
38. The permittee shall maintain records of: (1) the date and time of backup fuel NO<sub>x</sub> measurements, (2) the measured backup fuel NO<sub>x</sub> concentration (in ppmv or lb/MMBtu) corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
39. Records of daily and annual backup fuel consumption consisting of the date the boiler operated on fuel oil as backup fuel and the amount of time the boiler was operated, in hours, on fuel oil as backup fuel shall be maintained. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
40. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520] Federally Enforceable Through Title V Permit
41. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520] Federally Enforceable Through Title V Permit
42. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 and 4301. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
43. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407 and SJVAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
44. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NO<sub>x</sub> emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NO<sub>x</sub> emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-498-8-7

EXPIRATION DATE: 11/30/2014

SECTION: 15 TOWNSHIP: 30S RANGE: 27E

## EQUIPMENT DESCRIPTION:

DORMANT 12.6 MMBTU/HR JOHNSTON MODEL 524 AHG NATURAL GAS/OIL-FIRED BOILER

## PERMIT UNIT REQUIREMENTS

1. This permit unit shall not be operated unless the owner or operator obtains a modified Title V permit that ensures compliance with all of the current applicable requirements for this emissions unit. [District Rule 2520] Federally Enforceable Through Title V Permit
2. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the requirements of all applicable District Rules including District Rule 4306. [District Rule 2010] Federally Enforceable Through Title V Permit
3. No modification to this unit shall be performed without Authority to Construct for that modification(s), except for changes specified in condition 6, below. [District Rule 2010] Federally Enforceable Through Title V Permit
4. The fuel supply line shall be physically disconnected from the emission unit. [District Rule 2010] Federally Enforceable Through Title V Permit
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 19, 1993). [District Rule 1081, and Kern County Rules 108.1] Federally Enforceable Through Title V Permit
6. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520] Federally Enforceable Through Title V Permit
7. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Particulate matter emissions shall not exceed 0.1 grain/dscf, 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201 and 4301] Federally Enforceable Through Title V Permit
9. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520] Federally Enforceable Through Title V Permit
10. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub>. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas or on diesel fuel not exceeding 0.5% sulfur by weight; or by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520 and 4301] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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



11. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520] Federally Enforceable Through Title V Permit
12. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520] Federally Enforceable Through Title V Permit
13. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520] Federally Enforceable Through Title V Permit
14. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520] Federally Enforceable Through Title V Permit
15. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, and 4305] Federally Enforceable Through Title V Permit
16. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Sulfur compound emissions shall not exceed 2,000 ppmv as SO<sub>2</sub>. [District Rule 4801] Federally Enforceable Through Title V Permit
18. Unit shall be fired on natural gas or fuel oil and equipped with non-resettable fuel flow meters. [District Rule 2201 and 4305] Federally Enforceable Through Title V Permit
19. The boiler and appurtenances, including fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District Rule 2201] Federally Enforceable Through Title V Permit
20. This permit unit shall not operate while S-498-6 is operating. [District Rule 2201 and 4305] Federally Enforceable Through Title V Permit
21. Fuel oil sulfur content shall not exceed 1.2% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Total facility fuel oil consumption shall not exceed 1,417 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Fuel usage for this unit shall be less than 90 billion BTU per year. [District Rule 2201 and 4305] Federally Enforceable Through Title V Permit
24. Combined daily emissions from permit units #S-498-6 and -8 shall not exceed the following: SO<sub>x</sub> (as SO<sub>2</sub>): 275.00 lb/day; and NO<sub>x</sub> (as NO<sub>2</sub>): 107.52 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Unit shall be tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304. [District Rule 4305]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. Permittee shall maintain accurate records of daily, monthly, and annual fuel use, fuel oil sulfur content, boiler usage, and dates tuning performed for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 2201, 2520, and 4305] Federally Enforceable Through Title V Permit
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201, 4301 and 4305. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407 and SJVAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
29. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NO<sub>x</sub> emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NO<sub>x</sub> emission limit listed in Rule 4320. [District Rule 430] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-498-11-6

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

YEAST TRADE FERMENTOR #4 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

**PERMIT UNIT REQUIREMENTS**

1. Fermentor exhaust shall be equipped with a continuously operating total hydrocarbon flame ionization detector (THC FID) calibrated with propane. [District Rule 2201] Federally Enforceable Through Title V Permit
2. THC FID shall be used to monitor VOC concentration in the fermentor exhaust to allow control of fermentation process to minimize VOC emissions. The THC FID is not a continuous emission monitor as defined in District Rule 1080. [District Rule 2201] Federally Enforceable Through Title V Permit
3. VOC emissions rate (expressed as propane) shall not exceed 10 lb/ton of yeast produced in any day and VOC emissions in any calendar month shall not exceed 1.25 lb/ton of yeast produced. [District Rule 2201] Federally Enforceable Through Title V Permit
4. VOC lb/ton (calendar month average) shall be calculated as follows.  $\text{VOC lb/ton (calendar month average)} = \frac{\text{Sum of the VOC emissions per ton of yeast produced for each batch (VOC lb/ton-batch) during the calendar month}}{\text{number of batches produced during the calendar month}}$ , using  $\text{VOC lb/ton-batch} = \frac{\text{Sum of the hourly VOC emission rate (VOC lb/hr) during a batch}}{\text{tons yeast produced in that batch}}$  and  $\text{VOC lb/hr} = (\text{average VOC ppmv during hour}) \times (\text{air flow rate into fermentor during hour}) \times (44 \text{ lbmol propane} / 385.3 \text{ scf}) \times (1\text{E-}6)$ . In determining the tons of yeast produced, assume the yeast produced is equal to 30% of the liquid yeast produced. [District Rule 2201] Federally Enforceable Through Title V Permit
5. VOC emission rate shall not exceed 500 lb/day and 18,750 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Permittee shall maintain, for a period of at least five years, records of daily and annual yeast production from this unit, VOC emissions in pounds of VOC emitted per ton of yeast produced for each day and each calendar month, and daily and annual VOC emissions. Such records shall be made readily available for District inspection upon request. [District Rule 2201 and 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-498-13-4

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

33,600 GALLON FERMENTOR VESSEL #1 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

**PERMIT UNIT REQUIREMENTS**

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1. Organic liquids, as defined in District Rule 4623, shall not be stored in this vessel. [District Rule 4623] Federally Enforceable Through Title V Permit
2. The operator shall keep accurate records of types of liquids stored to verify continued exemption from District Rule 4623 for a period of 5 years and shall make such records available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-498-14-4

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

33,600 GALLON FERMENTOR VESSEL #2 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

## PERMIT UNIT REQUIREMENTS

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1. Organic liquids, as defined in District Rule 4623, shall not be stored in this vessel. [District Rule 4623] Federally Enforceable Through Title V Permit
2. The operator shall keep accurate records of types of liquids stored to verify continued exemption from District Rule 4623 for a period of 5 years and shall make such records available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-498-15-4

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

33,600 GALLON FERMENTOR VESSEL #3 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

**PERMIT UNIT REQUIREMENTS**

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1. Organic liquids, as defined in District Rule 4623, shall not be stored in this vessel. [District Rule 4623] Federally Enforceable Through Title V Permit
2. The operator shall keep accurate records of types of liquids stored to verify continued exemption from District Rule 4623 for a period of 5 years and shall make such records available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Previous Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: S-498-0-3

EXPIRATION DATE: 11/30/2014

## 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 and Kern County Rule 111] 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 and Kern County Rule 111] 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, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: AMERICAN YEAST CORPORATION  
Location: 5455 DISTRICT BLVD @ ARMSTRONG, BAKERSFIELD, CA  
S-498-0-3 Oct 7 2015 11:14AM - JONESW



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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] 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), 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. 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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin March 30 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: S-498-1-6

EXPIRATION DATE: 11/30/2014

SECTION: 15 TOWNSHIP: 30S RANGE: 27E

**EQUIPMENT DESCRIPTION:**

FERMENTATION PROCESS INCLUDING TWO PURE CULTURE FERMENTORS

**PERMIT UNIT REQUIREMENTS**

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1. Only one pure culture fermentor may be used at any one time. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Permittee shall maintain records of when each of the pure culture fermentation vessels are used in production, and shall maintain such records readily available for District inspection upon request for a period of 5 years. [District NSR Rule] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-498-6-8

EXPIRATION DATE: 11/30/2014

SECTION: 15 TOWNSHIP: 30S RANGE: 27E

## EQUIPMENT DESCRIPTION:

20. 1 MMBTU/HR CLEAVER BROOKS MODEL DELTA WT400XA-5 NATURAL GAS/OIL-FIRED BOILER EQUIPPED WITH COEN LOW-NOX BURNERS

## PERMIT UNIT REQUIREMENTS

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1. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained. [District NSR Rule and District Rules 4305, 5.4.4 and 4306, 5.4.4] Federally Enforceable Through Title V Permit
2. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel oil as backup fuel combusted in the unit shall be installed, utilized and maintained. [District Rules 4305, and 4306, 5.4.4] Federally Enforceable Through Title V Permit
3. The boiler and appurtenances, including fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule] Federally Enforceable Through Title V Permit
4. This permit unit shall not operate while S-498-8 is operating. [District NSR Rule] Federally Enforceable Through Title V Permit
5. This boiler shall only be fired on PUC-quality natural gas or fuel oil as a backup fuel. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
6. The unit shall be fired on fuel oil as backup fuel only during natural gas curtailment for no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing. [District Rules 4305, 4.2 and 4306, 4.2.1] Federally Enforceable Through Title V Permit
7. Total facility fuel oil consumption shall not exceed 1,417 gallons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Maximum annual heat input of the unit shall not exceed 30 billion Btu per calendar year. [District NSR Rule, 4305 and 4306, 5.1.1] Federally Enforceable Through Title V Permit
9. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub> nor shall the concentration of sulfur compounds in the exhaust exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with these requirements the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not to exceed 0.5% sulfur by weight or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude) or by source testing in combination with fuel analysis. [District Rules 2520, 9.3.2 and 4301, 5.2.1] Federally Enforceable Through Title V Permit
10. Fuel oil sulfur content shall not exceed 1.2% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Combined daily emissions from permit units #S-498-6 and '-8 shall not exceed the following: SO<sub>x</sub> (as SO<sub>2</sub>): 275.00 lb/day; and NO<sub>x</sub> (as NO<sub>2</sub>): 107.52 lb/day. [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. Particulate matter emissions shall not exceed 0.1 grain/dscf, 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
13. Emissions from the boiler when fired on natural gas shall not exceed any of the following limits: 30 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.036 lb-NO<sub>x</sub>/MMBtu, 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu, 400 ppmvd CO @ 3% O<sub>2</sub> or 0.317 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District NSR Rule, 4305, and 4306] Federally Enforceable Through Title V Permit
14. Emissions from the boiler when fired on fuel oil shall not exceed any of the following limits: 150 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.215 lb-NO<sub>x</sub>/MMBtu, 0.57 lb-SO<sub>x</sub>/MMBtu, 0.015 lb-PM<sub>10</sub>/MMBtu, 400 ppmvd CO @ 3% O<sub>2</sub> or 0.317 lb-CO/MMBtu, or 0.0015 lb-VOC/MMBtu. [District NSR Rule, 4305, and 4306] Federally Enforceable Through Title V Permit
15. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. Source testing to measure natural gas-combustion NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 6.3.1 and 4306, 6.3.1] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. Permittee shall test sulfur content of fuel oil no less than once annually, in years when fuel oil is used, and keep records of the results. [District NSR Rule] Federally Enforceable Through Title V Permit
20. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 19, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
21. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 6.2.2, 6.2.5 and 4306, 6.2.2, 6.2.5] Federally Enforceable Through Title V Permit
22. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 6.2.3 and 4306, 6.2.3] Federally Enforceable Through Title V Permit
23. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 6.2.4 and 4306, 6.2.4] Federally Enforceable Through Title V Permit
24. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [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.

26. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the following test methods shall be used: For gaseous fuels, the sulfur content shall be determined using ASTM D1072, D4084, D3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. For liquid fuels, the sulfur content shall be determined using ASTM D4294. The fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by the following methods: For gaseous fuels use ASTM D1826 or D1945 in conjunction with ASTM D3588. For liquid hydrocarbon fuels use ASTM D240. [Districts Rules 4305, 6.2.1 and 4306, 6.2.1] Federally Enforceable Through Title V Permit
27. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. The stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis, using District approved portable analyzers. [District Rules 4305 and 4306, 5.4.2 and 5.4.3] Federally Enforceable Through Title V Permit
29. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 5.5.2 and 4306, 5.5.2] Federally Enforceable Through Title V Permit
30. If the unit is fired on fuel oil as backup fuel for a period exceeding 48 cumulative hours in a calendar year, the permittee shall monitor and record the stack concentration of NOx at least once during that year using an APCO approved portable NOx analyzer. Monitoring for backup fuel NOx emissions shall not be required when the unit is operating on primary fuel, i.e. the unit need not be fired on backup fuel solely to perform monitoring. [District Rules 4305 and 4306, 4.2.2] Federally Enforceable Through Title V Permit
31. Backup fuel NOx emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 5.5.4 and 4306, 5.5.4] Federally Enforceable Through Title V Permit
32. If the NOx and CO concentrations, as measured by the portable analyzer, exceed the allowable emission rate, the permittee or third party shall notify the District and take corrective action as soon as possible, but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed for more than one hour the allowable emission rate, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emission limits. [District Rule 4305 and 4306] Federally Enforceable Through Title V Permit
33. The portable analyzer shall be calibrated prior to each use with a two-point calibration method (zero and span). Calibration shall be performed with certified calibration gases. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
35. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 6.1.1 and 4306, 6.1.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The permittee shall maintain records of: (1) the date and time of backup fuel NOx measurements, (2) the measured backup fuel NOx concentration (in ppmv or lb/MMBtu) corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 6.1.1 and 4306, 6.1.1] Federally Enforceable Through Title V Permit
37. Records of daily and annual backup fuel consumption consisting of the date the boiler operated on fuel oil as backup fuel and the amount of time the boiler was operated, in hours, on fuel oil as backup fuel shall be maintained. [District Rules 4305, 6.1.1 and 4306, 6.1.1] Federally Enforceable Through Title V Permit
38. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 252C, 9.3.2] Federally Enforceable Through Title V Permit
39. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201 and 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407 and SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. Pursuant to Rule 4320, the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320]
43. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320]
44. The permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contracts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320]

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



# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-498-8-6

EXPIRATION DATE: 11/30/2014

SECTION: 15 TOWNSHIP: 30S RANGE: 27E

**EQUIPMENT DESCRIPTION:**

DORMANT 12.6 MMBTU/HR JOHNSTON MODEL 524 AHG NATURAL GAS/OIL-FIRED BOILER

## PERMIT UNIT REQUIREMENTS

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1. This permit unit shall not be operated unless the owner or operator obtains a modified Title V permit that ensures compliance with all of the current applicable requirements for this emissions unit. [District Rule 2520, 9.0] Federally Enforceable Through Title V Permit
2. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the requirements of all applicable District Rules including District Rule 4306. [District Rule 2010] Federally Enforceable Through Title V Permit
3. No modification to this unit shall be performed without Authority to Construct for that modification(s), except for changes specified in condition 6, below. [District Rule 2010] Federally Enforceable Through Title V Permit
4. The fuel supply line shall be physically disconnected from the emission unit. [District Rule 2010] Federally Enforceable Through Title V Permit
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(Last Amended December 19,1993). [District Rule 1081, and Kern County Rules 108.1] Federally Enforceable Through Title V Permit
6. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit
8. Particulate matter emissions shall not exceed 0.1 grain/dscf, 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
9. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. Emissions of sulfur compounds from this unit shall not exceed 200 lb per hour, calculated as SO<sub>2</sub>. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas or on diesel fuel not exceeding 0.5% sulfur by weight; or by testing the sulfur content of each fuel and determining the maximum hourly emissions of sulfur compounds by multiplying the sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by source testing in combination with fuel analysis. [District Rule 2520, 9.4.2 and District Rule 4301, 5.2.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
12. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
13. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
14. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
15. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.4.2, and 4305, 6.2.1] Federally Enforceable Through Title V Permit
16. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period (Kern County Rule 407). To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Sulfur compound emissions shall not exceed 2,000 ppmv as SO2. [District Rule 4801] Federally Enforceable Through Title V Permit
18. Unit shall be fired on natural gas or fuel oil and equipped with non-resettable fuel flow meters. [District NSR Rule and 4305] Federally Enforceable Through Title V Permit
19. The boiler and appurtenances, including fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule] Federally Enforceable Through Title V Permit
20. This permit unit shall not operate while S-498-6 is operating. [District NSR Rule and District Rule 4305] Federally Enforceable Through Title V Permit
21. Fuel oil sulfur content shall not exceed 1.2% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Total facility fuel oil consumption shall not exceed 1,417 gallons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Fuel usage for this unit shall be less than 90 billion BTU per year. [District NSR Rule and 4305] Federally Enforceable Through Title V Permit
24. Combined daily emissions from permit units #S-498-6 and '-8 shall not exceed the following: SOx (as SO2): 275.00 lb/day; and NOx (as NO2): 107.52 lb/day. [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.

25. Unit shall be tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304. [District Rule 4305]
26. Permittee shall maintain accurate records of daily, monthly, and annual fuel use, fuel oil sulfur content, boiler usage, and dates tuning performed for a period of five years and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.5.2 and 4305] Federally Enforceable Through Title V Permit
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201, 4301 and 4305. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407 and SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-498-11-5

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

YEAST TRADE FERMENTOR #4 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

## PERMIT UNIT REQUIREMENTS

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1. Fermentor exhaust shall be equipped with a continuously operating total hydrocarbon flame ionization detector (THC FID) calibrated with propane. [District NSR Rule] Federally Enforceable Through Title V Permit
2. THC FID shall be used to monitor VOC concentration in the fermentor exhaust to allow control of fermentation process to minimize VOC emissions. The THC FID is not a continuous emission monitor as defined in District Rule 1080. [District NSR Rule] Federally Enforceable Through Title V Permit
3. VOC emissions rate (expressed as propane) shall not exceed 10 lb/ton of yeast produced in any day and VOC emissions in any calendar month shall not exceed 1.25 lb/ton of yeast produced. [District NSR Rule] Federally Enforceable Through Title V Permit
4. VOC lb/ton (calendar month average) shall be calculated as follows.  $\text{VOC lb/ton (calendar month average)} = \frac{\text{Sum of the VOC emissions per ton of yeast produced for each batch (VOC lb/ton-batch) during the calendar month}}{\text{number of batches produced during the calendar month}}$ , using  $\text{VOC lb/ton-batch} = \frac{\text{Sum of the hourly VOC emission rate (VOC lb/hr) during a batch}}{\text{tons yeast produced in that batch}}$  and  $\text{VOC lb/hr} = (\text{average VOC ppmv during hour}) \times (\text{air flow rate into fermentor during hour}) \times (44 \text{ lbmol propane} / 385.3 \text{ scf}) \times (1\text{E-}6)$ . In determining the tons of yeast produced, assume the yeast produced is equal to 30% of the liquid yeast produced. [District NSR Rule] Federally Enforceable Through Title V Permit
5. VOC emission rate shall not exceed 500 lb/day and 18,750 lb/year. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Permittee shall maintain, for a period of at least five years, records of daily and annual yeast production from this unit, VOC emissions in pounds of VOC emitted per ton of yeast produced for each day and each calendar month, and daily and annual VOC emissions. Such records shall be made readily available for District inspection upon request. [District NSR Rule 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: S-498-13-3

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

33,600 GALLON FERMENTOR VESSEL #1 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

**PERMIT UNIT REQUIREMENTS**

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1. Organic liquids, as defined in District Rule 4623, shall not be stored in this vessel. [District Rule 4623, 2.0] Federally Enforceable Through Title V Permit
2. The operator shall keep accurate records of types of liquids stored to verify continued exemption from District Rule 4623 for a period of 5 years and shall make such records available for District inspection upon request. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-498-14-3

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

33,600 GALLON FERMENTOR VESSEL #2 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

**PERMIT UNIT REQUIREMENTS**

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1. Organic liquids, as defined in District Rule 4623, shall not be stored in this vessel. [District Rule 4623, 2.0] Federally Enforceable Through Title V Permit
2. The operator shall keep accurate records of types of liquids stored to verify continued exemption from District Rule 4623 for a period of 5 years and shall make such records available for District inspection upon request. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-498-15-3

EXPIRATION DATE: 11/30/2014

**EQUIPMENT DESCRIPTION:**

33,600 GALLON FERMENTOR VESSEL #3 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

**PERMIT UNIT REQUIREMENTS**

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1. Organic liquids, as defined in District Rule 4623, shall not be stored in this vessel. [District Rule 4623, 2.0] Federally Enforceable Through Title V Permit
2. The operator shall keep accurate records of types of liquids stored to verify continued exemption from District Rule 4623 for a period of 5 years and shall make such records available for District inspection upon request. [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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# ATTACHMENT C

Detailed Facility List

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**Detailed Facility Report**

For Facility=498 and excluding Deleted Permits

AMERICAN YEAST CORPORATION  
5455 DISTRICT BLVD @ ARMSTRONG  
BAKERSFIELD, CA

FAC # S 498  
STATUS: A  
TELEPHONE: 6618341050

TYPE: TitleV  
TOXIC ID: 50096  
EXP. DATE: 11/30/2014  
AREA: 81 /  
INSP. DATE: 06/16

Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-498-1-6	< 5000 gallon stationary container	3020-05 A	1	79.00	79.00	A	FERMENTATION PROCESS INCLUDING TWO PURE CULTURE FERMENTORS
S-498-6-8	20,112 KBTU/hr	3020-02 H	1	1,080.00	1,080.00	A	20.1 MMBTU/HR CLEAVER BROOKS MODEL DELTA WT480XA-5 NATURAL GAS/OIL-FIRED BOILER EQUIPPED WITH COENLOW-NOX BURNERS
S-498-8-6	12,600 KBTU/hr	3020-02 G	1	855.00	855.00	A	DORMANT 12.6 MMBTU/HR JOHNSTON MODEL 524 AHG NATURAL GAS/OIL-FIRED BOILER
S-498-11-5	62,000 gallons	3020-05 D	1	194.00	194.00	A	YEAST TRADE FERMENTOR #4 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR
S-498-13-3	33,600 gallons	3020-05 C	1	142.00	142.00	A	33,600 GALLON FERMENTOR VESSEL #1 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR
S-498-14-3	33,600 gallons	3020-05 C	1	142.00	142.00	A	33,600 GALLON FERMENTOR VESSEL #2 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR
S-498-15-3	33,600 gallons	3020-05 C	1	142.00	142.00	A	33,600 GALLON FERMENTOR VESSEL #3 WITH A TOTAL HYDROCARBON FLAME IONIZATION DETECTOR

Number of Facilities Reported: 1