



JAN 10 2013

Mike Harnden  
AEMETIS Advanced Fuels Keyes, Inc  
P.O. Box 879  
Keyes, CA 95328-0879

**Re: Notice of Final Action - Title V Permit (Revised)**  
**District Facility # N-7488**  
**Project # N-1111864**

Dear Mr. Harnden:

The District has issued the Final Title V Permit for AEMETIS Advanced Fuels Keyes, Inc. The preliminary decision for this project was made on November 27, 2012. No comments were received subsequent to the District preliminary decision.

Enclosed is the revised Final Title V Permit. Please note that the permit expiration date is corrected to November 30, 2017. This permit supercede any previously issued Title V permit.

Thank you for your cooperation in this matter. Should you have any questions, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:JK/st

Enclosures

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

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

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

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



JAN 10 2013

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

**Re: Notice of Final Action - Title V Permit (Revised)**  
**District Facility # N-7488**  
**Project # N-1111864**

Dear Mr. Rios:

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Enclosed is the revised Final Title V Permit. Please note that the permit expiration date is corrected to November 30, 2017. This permit supercede any previously issued Title V permit.

I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:JK/st

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JAN 10 2013

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

**Re: Notice of Final Action - Title V Permit (Revised)**  
**District Facility # N-7488**  
**Project # N-1111864**

Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for AEMETIS Advanced Fuels Keyes, Inc. The preliminary decision for this project was made on November 27, 2012. No comments were received subsequent to the District preliminary decision.

Enclosed is the revised Final Title V Permit. Please note that the permit expiration date is corrected to November 30, 2017. This permit supercede any previously issued Title V permit.

I would like to thank you and your staff for working with us. Should you have any questions, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:JK/st

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

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**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



# Permit to Operate

**FACILITY:** N-7488 **EXPIRATION DATE:** 11/30/2017  
**LEGAL OWNER OR OPERATOR:** AEMETIS ADVANCED FUELS KEYES INC  
**MAILING ADDRESS:** P O BOX 879  
KEYES, CA 95328-0879  
**FACILITY LOCATION:** 4209 JESSUP ROAD  
CERES, CA  
**FACILITY DESCRIPTION:** ETHANOL PRODUCTION FACILITY

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin  
Executive Director / APCO

David Warner  
Director of Permit Services

# San Joaquin Valley Air Pollution Control District

FACILITY: N-7488-0-1

EXPIRATION DATE: 11/30/2017

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 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: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-0-1 4 Jan 9 2013 8:47AM - KAHLOUJ

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 County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in 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  
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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. Each owner or operator subject to the provisions of 40 CFR Part 60 Subpart VVa shall demonstrate compliance with the requirements of 40 CFR 60.482-1a through 60.482-10a or 40 CFR 60.480a(e) for all equipment within 180 days of initial startup. [40 CFR 60.482-1a(a)] Federally Enforceable Through Title V Permit
43. Compliance with 40 CFR 60.482-1a to 60.482-10a will be determined by review of records and reports, review of performance test results, and inspection using the methods and procedures specified in 40 CFR 60.485a. [40 CFR 60.482-1a(b)] Federally Enforceable Through Title V Permit
44. An owner or operator may request a determination of equivalence of a means of emission limitation to the requirements of 40 CFR 60.482-2a, 60.482-3a, 60.482-5a, 60.482-6a, 60.482-7a, 60.482-8a, and 60.482-10a as provided in 40 CFR 60.484a. [40 CFR 60.482-1a(c)] Federally Enforceable Through Title V Permit
45. If the Administrator makes a determination that a means of emission limitation is at least equivalent to the requirements of 40 CFR 60.482-2a, 60.482-3a, 60.482-5a, 60.482-6a, 60.482-7a, 60.482-8a, or 60.482-10a, an owner or operator shall comply with the requirements of that determination. [40 CFR 60.482-1a(c)] Federally Enforceable Through Title V Permit
46. Equipment that is in vacuum service is excluded from the requirements of 40 CFR 60.482-2a to 40 CFR 60.482-10a if it is identified as required in 40 CFR 60.486a(e)(5). [40 CFR 60.482-1a(d)] Federally Enforceable Through Title V Permit
47. Each pump in light liquid service (PLLS) shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60.485a(b), except as provided in 40 CFR 60.482-1a(c) and 40 CFR 60.482-2a(d), (e), and (f). Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. A leak is detected if an instrument reading of 500 ppmv or greater is measured or if there are indications of liquids dripping from the pump seal. [40 CFR 60.482-2a(a) and (b) and District Rule 2201] 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.

48. When a leak is detected for each PLLS, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9a. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [40 CFR 60.482-2a(c)] Federally Enforceable Through Title V Permit
49. Each PLLS equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of 40 CFR 60.482-2a(a) provided the requirements specified in 40 CFR 60.482-2a(d)(1) through (6) are met. [40 CFR 60.482a(d)] Federally Enforceable Through Title V Permit
50. Any PLLS that is designated, as described in 40 CFR 60.486a(e)(1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppmv above background, is exempt from the requirements of 40 CFR 60.482-2a(a), (c), and (d) if the pump meets the requirements specified in 40 CFR 60.482-2a(e)(1), (2), and (3). [40 CFR 60.482-2a(e) and District Rule 2201] Federally Enforceable Through Title V Permit
51. If any PLLS is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of 40 CFR 60.482-10a, it is exempt from the requirements of 40 CFR 60.482-2a(a) through (e). [40 CFR 60.482-2a(f)] Federally Enforceable Through Title V Permit
52. Any pump in PLLS that is designated as an unsafe-to-monitor pump, as described in 40 CFR 60.486a(f)(1), is exempt from the monitoring and inspection requirements of 40 CFR 60.482-2a(a) and 40 CFR 60.482-2a(d)(4) through (6) if:  
1) The owner or operator of the pump demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-2a(a); and 2) The owner or operator of the pump has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 60.482-2a(c) if a leak is detected. [40 CFR 60.482-2a(g)] Federally Enforceable Through Title V Permit
53. Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of 40 CFR 60.482-2a(a)(2) and (d)(4) and the daily requirements of 40 CFR 60.482-2a(d)(5), provided that each pump is visually inspected as often as practicable and at least monthly. [40 CFR 60.482-2a(h)] Federally Enforceable Through Title V Permit
54. Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in 40 CFR 60.482-3a(c), (h) and (i). Each compressor shall be operated and equipped as specified in 40 CFR 60.482-3a(b)(1), or (2), or (3). [40 CFR 60.482-3a(a), (b), and (c)] Federally Enforceable Through Title V Permit
55. If a barrier fluid system is used for a compressor, the barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system or both. Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier system, or both based on the established criterion, a leak is detected. [40 CFR 60.482-3a(d), (e), and (f)] Federally Enforceable Through Title V Permit
56. If a barrier fluid system is used for a compressor, detected leaks shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9a. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [40 CFR 60.482-3a(g)] Federally Enforceable Through Title V Permit
57. Any compressor that is designated, as described in 40 CFR 60.486a(e)(1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppmv above background, is exempt from the requirements of 40 CFR 60.482-3a(a) through (h) if the compressor meets the requirements specified in 40 CFR 60.482-3a(i)(1) and (2). [40 CFR 60.482-3a(i) and District Rule 2201] Federally Enforceable Through Title V Permit
58. Any existing reciprocating compressor in a process unit which becomes an affected facility under the provisions of 40 CFR 60.14 or 40 CFR 60.15 is exempt from 40 CFR 60.482-3a(a) through (e), and (h), provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of 40 CFR 60.482-3a(a) through (e), and (h). [40 CFR 60.482-3(j)] 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.

59. Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 100 ppm above background, as determined by the methods specified in 40 CFR 60.485a(c). [40 CFR 60.482-4a(a) and District Rule 2201] Federally Enforceable Through Title V Permit
60. After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 100 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in 40 CFR 60.482-9a. No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 100 ppm above background, by the methods specified in 40 CFR 60.485a(c). [40 CFR 60.482-4a(b) and District Rule 2201] Federally Enforceable Through Title V Permit
61. Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in 40 CFR 60.482-10a is exempted from the requirements of 40 CFR 60.482-4a(a) and (b). [40 CFR 60.482-4(c)] Federally Enforceable Through Title V Permit
62. Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from the 40 CFR 60.482-4a(a) and (b), provided a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9a. [40 CFR 60.482-4a(d)] Federally Enforceable Through Title V Permit
63. Except for in-situ sampling systems and sampling systems without purges, each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 60.482-1a(c). Each closed-purge, closed-loop, or closed-vent system shall comply with the requirements specified in 40 CFR 60.482-5a(b)(1) through (4). [40 CFR 60.482-5a(a), (b) and (c)] Federally Enforceable Through Title V Permit
64. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 60.482-1a(c). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with this condition at all other times. [40 CFR 60.482-6a(a) and (c)] Federally Enforceable Through Title V Permit
65. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 60.482-6a(b)] Federally Enforceable Through Title V Permit
66. Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of 40 CFR 60.482-6a(a), (b) and (c). [40 CFR 60.482-6a(d)] Federally Enforceable Through Title V Permit
67. Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in 40 CFR 60.482-6a(a) through (c) are exempt from the requirements of 40 CFR 60.482-6a(a) through (c). [40 CFR 60.482-6a(e)] Federally Enforceable Through Title V Permit
68. Each valve in gas/vapor service and in light liquid service shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60.485a(b) and shall comply with 40 CFR 60.482-7a(b) through (e), except as provided in 40 CFR 60.482-7a(f), (g), and (h), 40 CFR 60.483-1a, 40 CFR 60.483-2a, and 40 CFR 60.482-1a(c). A leak is detected if an instrument reading of 100 ppmv or greater is measured. [40 CFR 60.482-7a(a) and (b) and District Rule 2201] Federally Enforceable Through Title V Permit
69. Any valve in gas/vapor service or in light liquid service for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months. [40 CFR 60.482-7a(c)] Federally Enforceable Through Title V Permit

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70. When a leak is detected for any valve in gas/vapor service or in light liquid service, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the best practices specified in 40 CFR 60.482-7a(e)(1), (2), (3), and (4), where practicable. [40 CFR 60.482-7a(d) and (e)] Federally Enforceable Through Title V Permit
71. Any valve in gas/vapor service or in light liquid service that is designated, as described in 40 CFR 60.486a(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 100 ppmv above background, is exempt from the requirements of 40 CFR 60.482-7a(a) if the valve meets the requirements specified in 40 CFR 60.482-7a(f)(1), (2), and (3). [40 CFR 60.482-7a(f) and District Rule 2201] Federally Enforceable Through Title V Permit
72. Any valve in gas/vapor service or in light liquid service that is designated, as described in 40 CFR 60.486a(f)(1), as an unsafe-to-monitor valve is exempt from the requirements of 40 CFR 60.482-7a(a) if: 1) The owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-7a(a); and 2) The owner or operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times. [40 CFR 60.482-7a(g)] Federally Enforceable Through Title V Permit
73. Any valve in gas/vapor service or in light liquid service that is designated, as described in 40 CFR 60.486a(f)(2), as a difficult-to-monitor valve is exempt from the requirements of 40 CFR 60.482-7a(a) if: 1) The owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface; 2) The process unit within which the valve is located either becomes an affected facility through 40 CFR 60.14 or 40 CFR 60.15 or the owner or operator designates less than 3.0 percent of the total number of valves as difficult-to-monitor; and 3) The owner or operator of the valve follows a written plan that requires monitoring of the valve at least once per calendar year. [40 CFR 60.482-7a(h)] Federally Enforceable Through Title V Permit
74. If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps, valves and connectors in heavy liquid service and pressure relief devices in light liquid or heavy liquid service, the owner or operator shall follow either one of the following procedures: 1) The owner or operator shall monitor the equipment within 5 days by the method specified in 40 CFR 60.485a(b) and shall comply with the requirements of 40 CFR 60.482-8a(b) through (d); or 2) The owner or operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak. A leak is detected if an instrument reading of 100 ppmv or greater for valves and connectors and 500 ppmv or greater for pumps and compressor seals is measured. [40 CFR 60.482-8a(a) and (b), and District Rule 2201] Federally Enforceable Through Title V Permit
75. When a leak is detected in pumps, valves and connectors in heavy liquid service and pressure relief devices in light liquid or heavy liquid service, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9a. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the best practices described under 40 CFR 60.482-7a(c)(2) and 60.482-7a(e). [40 CFR 60.482-8a(c) and (d)] Federally Enforceable Through Title V Permit
76. For closed vent systems and control devices, vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 ppmv, whichever is less stringent. [40 CFR 60.482-10a(b)] Federally Enforceable Through Title V Permit
77. For closed vent systems and control devices, enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 ppmv, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C. [40 CFR 60.482-10a(c)] Federally Enforceable Through Title V Permit
78. Flare used to comply with subpart VVa shall comply with the requirements of 40 CFR 60.18. [40 CFR 60.482-10a(d)] Federally Enforceable Through Title V Permit

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79. Owners or operators of control devices used to comply with the provisions of Subpart VVa shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. [40 CFR 60.482-10a(e)] Federally Enforceable Through Title V Permit
80. Except as provided in 40 CFR 60.482-10a(i) through (k), each closed vent system shall be inspected according to the procedures and schedule specified in 60.482-10a(f)(1) and (f)(2). Leaks, as indicated by an instrument reading greater than 100 ppmv for valves and connectors or 500 ppmv for pumps and compressor seals above background or by visual inspections, shall be repaired as soon as practicable except as provided in 40 CFR 60.482-10a(h). A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Repair shall be completed no later than 15 calendar days after the leak is detected. [40 CFR 60.482-10a(f) and (g), and District Rule 2201] Federally Enforceable Through Title V Permit
81. Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown. [40 CFR 60.482-10a(h)] Federally Enforceable Through Title V Permit
82. If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of 40 CFR 60.482-10a(f)(1)(i) and (f)(2). [40 CFR 60.482-10a(i)] Federally Enforceable Through Title V Permit
83. Any parts of the closed vent system that are designated, as described in 40 CFR 60.482-10a(l)(1), as unsafe to inspect are exempt from the inspection requirements of 40 CFR 60.482-10a(f)(1)(i) and (f)(2) if they comply with the requirements specified in 40 CFR 60.482-10a(j)(1) and (j)(2). [40 CFR 60.482-10a(j)] Federally Enforceable Through Title V Permit
84. Any parts of the closed vent system that are designated, as described in 40 CFR 60.482-10a(l)(2), as difficult to inspect are exempt from the inspection requirements of 40 CFR 60.482-10a(f)(1)(i) and (f)(2) if they comply with the requirements specified in 40 CFR 60.482-10a(k)(1) through (k)(3). [40 CFR 60.482-10a(k)] Federally Enforceable Through Title V Permit
85. The owner or operator shall record the following information: 1) Identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment; 2) Identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment; 3) For each inspection during which a leak is detected, a record of the information specified in 40 CFR 60.486a(c); 4) For each inspection conducted in accordance with 40 CFR 60.485a(b) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected; and 5) For each visual inspection conducted in accordance with 40 CFR 60.482-10a(f)(1)(ii) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. [40 CFR 60.482-10a(l)] Federally Enforceable Through Title V Permit
86. Closed vent systems and control devices used to comply with provisions Subpart VVa shall be operated at all times when emissions may be vented to them. [40 CFR 60.482-10a(m)] Federally Enforceable Through Title V Permit
87. The owner or operator shall initially monitor all connectors in the process unit for leaks by the later of either 12 months after the compliance date or 12 months after the initial startup under this permit. [40 CFR 60.482-11a] Federally Enforceable Through Title V Permit
88. Except as allowed in 40 CFR 60.482-1a(c), 40 CFR 60.482-10a, or as specified in 40 CFR 60.482-11a(e), the owner or operator shall monitor all connectors in gas and vapor and light liquid service as specified 40 CFR Part 60.482-11a(a) and (b)(3). The connectors shall be monitored to detect leaks by the method specified in 40 CFR 60.485a(b) and, as applicable, 40 CFR 60.485a(c). A leak is detected if an instrument reading of 100 ppmv or greater is measured. [40 CFR 60.482-11a(b)(1) and (2) and District Rule 2201] Federally Enforceable Through Title V Permit

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89. The owner or operator shall perform monitoring, subsequent to the initial monitoring of all connectors in the process unit, as specified in 40 CFR 60.482-11a(b)(3)(i) through (iii), and shall comply with the requirements of 40 CFR 60.482-11a(b)(3)(iv) and (v). The required period in which monitoring must be conducted shall be determined from 40 CFR 60.482-11a(b)(3)(i) through (iii) using the monitoring results from the preceding monitoring period. The percent leaking connectors shall be calculated as specified in 40 CFR 60.482-11a(c). [40 CFR 60.482-11a(b)(3) and 40 CFR 60.482-11a(c)] Federally Enforceable Through Title V Permit
90. When a leak is detected for any connector in gas/vapor service and in light liquid service, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 60.482-9a. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. [40 CFR 60.482-11a(d)] Federally Enforceable Through Title V Permit
91. Any connector in gas/vapor service and in light liquid service that is designated, as described in 40 CFR 60.486a(f)(1), as an unsafe-to-monitor connector is exempt from the requirements of 40 CFR 60.482-11a(a) and (b) if: 1) The owner or operator of the connector demonstrates that the connector is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-11a(a) and (b); and 2) The owner or operator of the connector has a written plan that requires monitoring of the connector as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair the equipment according to the procedures in 40 CFR 60.482-11a(d) if a leak is detected. [40 CFR 60.482-11a(e)] Federally Enforceable Through Title V Permit
92. For any inaccessible, ceramic, or ceramic-lined connectors, any connector that is inaccessible or that is ceramic or ceramic-lined (e.g., porcelain, glass, or glass-lined), is exempt from the monitoring requirements of 40 CFR 60.682-11a(a) and (b), from the leak repair requirements of 40 CFR 60.682-11a(d), and from the recordkeeping and reporting requirements. An inaccessible connector is one that meets any of the following provisions, as applicable: (i) Buried; (ii) Insulated in a manner that prevents access to the connector by a monitor probe; (iii) Obstructed by equipment or piping that prevents access to the connector by a monitor probe; (iv) Unable to be reached from a wheeled scissor-lift or hydraulic-type scaffold that would allow access to connectors up to 7.6 meters (25 feet) above the ground; (v) Inaccessible because it would require elevating the monitoring personnel more than 2 meters (7 feet) above a permanent support surface or would require the erection of scaffold; or (vi) Not able to be accessed at any time in a safe manner to perform monitoring. Unsafe access includes, but is not limited to, the use of a wheeled scissor-lift on unstable or uneven terrain, the use of a motorized man-lift basket in areas where an ignition potential exists, or access would require near proximity to hazards such as electrical lines, or would risk damage to equipment. If any inaccessible, ceramic, or ceramic-lined connector is observed by visual, audible, olfactory, or other means to be leaking, the visual, audible, olfactory, or other indications of a leak to the atmosphere shall be eliminated as soon as practical. [40 CFR 60.682-11a(f)] Federally Enforceable Through Title V Permit
93. Except for instrumentation systems and inaccessible, ceramic, or ceramic-lined connectors meeting the provisions of 40 CFR 60.482-11a(f), the owner or operator shall identify the connectors subject to the requirements of this subpart. Connectors need not be individually identified if all connectors in a designated area or length of pipe subject to the provisions of this subpart are identified as a group, and the number of connectors subject is indicated. [40 CFR 60.482-11a(g)] Federally Enforceable Through Title V Permit
94. The owner or operator may elect to comply with alternative standards for valves in gas/vapor service and in light liquid service as specified in 40 CFR 60.483-1a and 60.483-2a. The owner or operator must notify the Administrator in writing before implementing alternative standards. [40 CFR 60.483-1a and 60.483-2a] Federally Enforceable Through Title V Permit
95. The owner or operator may apply to the Administrator for a determination of equivalency for any means of emission limitation that achieves a reduction in emissions of VOC at least equivalent to the reduction in emissions of VOC achieved by the controls required in Subpart VVa. [40 CFR 60.484a(a)] Federally Enforceable Through Title V Permit
96. In conducting the performance tests required in 40 CFR 60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR 60, Appendix A or other methods and procedures as specified in 40 CFR 60.485a, except as provided in 40 CFR 60.8(b). [40 CFR 60.485a(a)] Federally Enforceable Through Title V Permit

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97. The owner or operator shall determine compliance with the standards in 40 CFR 60.482-1a through 60.482-11a, 60.483a, and 60.484a using Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 of Appendix A-7. [40 CFR 60.485a(b) and District Rule 2201] Federally Enforceable Through Title V Permit
98. The owner or operator shall determine compliance with the no detectable emission standards in 40 CFR 60.482-2a(e), 60.482-3a(i), 60.482-4a, 60.482-7a(f), and 60.482-10a(e) as follows: 1) The requirements of 40 CFR 60.485a(b) shall apply. 2) Method 21 shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 100 ppmv methane for valves and connectors and 500 ppmv methane for pumps and compressor seals for determining compliance. [40 CFR 60.485a(c) and District Rule 2201] Federally Enforceable Through Title V Permit
99. The owner or operator shall test each piece of equipment unless demonstrated that a process unit is not in VOC service, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used: 1) Procedures that conform to the general methods in ASTM E260, E168, E169 shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment; 2) Organic compounds that are considered by the Administrator to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid; and 3) Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the Administrator disagrees with the judgment, the previous two procedures as specified in 40 CFR 60.485(d)(1) and (2) shall be used to resolve the disagreement. [40 CFR 60.485a(d)] Federally Enforceable Through Title V Permit
100. The owner or operator shall demonstrate that an equipment is in light liquid service by showing that all the following conditions apply: 1) The vapor pressure of one or more of the components is greater than 0.3 kPa at 20 °C (1.2 in. H<sub>2</sub>O at 68 degrees F). Standard reference texts or ASTM D2879 shall be used to determine the vapor pressures; 2) The total concentration of the pure components having a vapor pressure greater than 0.3 kPa at 20 °C (1.2 in. H<sub>2</sub>O at 68 degrees F) is equal to or greater than 20 percent by weight; and 3) The fluid is a liquid at operating conditions. [40 CFR 60.485a(e)] Federally Enforceable Through Title V Permit
101. Samples used in conjunction with 40 CFR 60.485a(d), (e), and (g) shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare. [40 CFR 60.485a(f)] Federally Enforceable Through Title V Permit
102. An owner or operator of more than one affected facility subject to the provisions Subpart VVa may comply with the recordkeeping requirements for these facilities in one recordkeeping system if the system identifies each record by each facility. [40 CFR 60.486a(a)(2)] Federally Enforceable Through Title V Permit
103. The owner or operator shall record the following information for each monitoring event required by 40 CFR 60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, 60.482-11a, and 60.483-2a: (i) Monitoring instrument identification, (ii) Operator identification, (iii) Equipment identification, (iv) Date of monitoring, and (v) Instrument reading. [40 CFR 60.486a(3)] Federally Enforceable Through Title V Permit
104. When each leak is detected as specified in 40 CFR 60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, 60.482-11a, and 60.483-2a, the following requirements apply: 1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment; 2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR 60.482-7a(c) and no leak has been detected during those 2 months; 3) The identification on a connector may be removed after it has been monitored as specified in 40 CFR 60.482-11a(b)(3)(iv) and no leak has been detected during that monitoring; 4) The identification on equipment, except on a valve or connector, may be removed after it has been repaired. [40 CFR 60.486a(b)] Federally Enforceable Through Title V Permit

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105. When each leak is detected as specified in 40 CFR 60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, 60.482-11a, and 60.483-2a, the following information shall be recorded in a log and shall be kept for 5 years in a readily accessible location: 1) The instrument and operator identification numbers and the equipment identification number, except when indication of liquids dripping from a pump are designated as a leak; 2) The date the leak was detected and the dates of each attempt to repair the leak; 3) Repair methods applied in each attempt to repair the leak; 4) Maximum instrument reading measured by Method 21 of appendix A-7 of 40 CFR Part 60 at the time the leak is successfully repaired or determined to be nonrepairable, except when a pump is repaired by eliminating indications of liquids dripping; 5) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak; 6) The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown; 7) The expected date of successful repair of the leak if a leak is not repaired within 15 days; 8) Dates of process unit shutdowns that occur while the equipment is unrepaired; and 9) The date of successful repair of the leak. [40 CFR 60.486a(c) and District Rule 2201] Federally Enforceable Through Title V Permit
106. The following information pertaining to the design requirements for closed vent systems and control devices described in 40 CFR 60.482-10a shall be recorded and kept in a readily accessible location: 1) Detailed schematics, design specifications, and piping and instrumentation diagrams; 2) The dates and descriptions of any changes in the design specifications; 3) A description of the parameter or parameters monitored, as required in 40 CFR 60.482-10a(e), to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring; 4) Periods when the closed vent systems and control devices required in 40 CFR 60.482-2a, 60.482-3a, 60.482-4a, and 60.482-5a are not operated as designed, including periods when a flare pilot light does not have a flame; and 5) Dates of startups and shutdowns of the closed vent systems and control devices required in 40 CFR 60.482-2a, 60.482-3a, 60.482-4a, and 60.482-5a. [40 CFR 60.486a(d)] Federally Enforceable Through Title V Permit
107. The following information pertaining to all equipment subject to the requirements in 40 CFR 60.482-1a to 60.482-11a shall be recorded in a log that is kept in a readily accessible location: 1) A list of identification numbers for equipment subject to the requirements of Subpart VVa; 2) (i) A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of 40 CFR 60.482-2a(e), 60.482-3a(i) and 60.482-7a(f). (ii) The designation of equipment as subject to the requirements of 40 CFR 60.482-2a(e), 60.482-3a(i), or 60.482-7a(f) shall be signed by the owner or operator; 3) A list of equipment identification numbers for pressure relief devices required to comply with 40 CFR 60.482-4a; 4) (i) The dates of each compliance test as required in 40 CFR 60.482-2a(e), 60.482-3a(i), 40 CFR 60.482-4a, and 40 CFR 60.482-7a(f). (ii) The background level measured during each compliance test. (iii) The maximum instrument reading measured at the equipment during each compliance test; 5) A list of identification numbers for equipment in vacuum service; 6) The date and results of the weekly visual inspection for indications of liquids dripping from pumps in light liquid service; 7) Records of the information for monitoring instrument calibrations conducted according to sections 8.1.2 and 10 of Method 21 of appendix A-7 of 40 CFR 60 and 40 CFR 60.485a(b). These records shall include: (i) Date of calibration and initials of operator performing the calibration; (ii) Calibration gas cylinder identification, certification date, and certified concentration; (iii) Instrument scale(s) used; (iv) A description of any corrective action taken if the meter readout could not be adjusted to correspond to the calibration gas value in accordance with section 10.1 of Method 21 of appendix A-7 of 40 CFR 60; (v) Results of each calibration drift assessment required by 40 CFR 60.485a(b)(2) (i.e., instrument reading for calibration at end of monitoring day and the calculated percent difference from the initial calibration value); and (vi) If an owner or operator makes their own calibration gas, a description of the procedure used; 8) The connector monitoring schedule for each process unit as specified in 40 CFR 60.482-11a(b)(3)(v); and 9) Records of each release from a pressure relief device subject to 40 CFR 60.482-4a. [40 CFR 60.486a(e)] Federally Enforceable Through Title V Permit
108. The following information pertaining to all valves subject to the requirements of 40 CFR 60.482-7a(g) and (h), all pumps subject to the requirements of 40 CFR 60.482-2a(g), and all connectors subject to the requirements of 40 CFR 60.482-11a(e) shall be recorded in a log that is kept in a readily accessible location: 1) A list of identification numbers for valves, pumps, and connectors that are designated as unsafe-to-monitor, an explanation for each valve, pump, or connector stating why the valve or pump is unsafe-to-monitor, and the plan for monitoring each valve, pump, or connector; and 2) A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve. [40 CFR 60.486a(f)] Federally Enforceable Through Title V Permit

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109. The following information shall be recorded for valves complying with 40 CFR 60.483-2a: 1) A schedule of monitoring; 2) The percent of valves found leaking during each monitoring period. [40 CFR 60.486a(g)] Federally Enforceable Through Title V Permit
110. The following information shall be recorded in a log that is kept in a readily accessible location: 1) Design criterion required in 40 CFR 60.482-2a(d)(5) and 60.482-3a(e)(2) and explanation of the design criterion; and 2) Any changes to this criterion and the reasons for the changes. [40 CFR 60.486a(h)] Federally Enforceable Through Title V Permit
111. The following information shall be recorded in a log that is kept in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480a(d): 1) An analysis demonstrating the design capacity of the affected facility; 2) A statement listing the feed or raw materials and products from the affected facilities and an analysis demonstrating whether these chemicals are heavy liquids or beverage alcohol; and 3) An analysis demonstrating that equipment is not in VOC service. [40 CFR 60.486a(i)] Federally Enforceable Through Title V Permit
112. Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location. [40 CFR 60.486a(j)] Federally Enforceable Through Title V Permit
113. The provisions of 40 CFR 60.7(b) and (d) do not apply to affected facilities subject to Subpart VVa. [40 CFR 60.486a(k)] Federally Enforceable Through Title V Permit
114. The owner or operator subject to the provisions of 40 CFR Part 60 Subpart VVa shall submit semiannual reports to the Administrator beginning 6 months after the initial startup date. [40 CFR 60.487a(a)] Federally Enforceable Through Title V Permit
115. The initial semiannual report to the Administrator shall include the following information: 1) Process unit identification; 2) Number of valves subject to the requirements of <sup>1</sup> 60.482-7a, excluding those valves designated for no detectable emissions under the provisions of 40 CFR 60.482-7a(f); 3) Number of pumps subject to the requirements of 40 CFR 60.482-2a, excluding those pumps designated for no detectable emissions under the provisions of 40 CFR 60.482-2a(e) and those pumps complying with 40 CFR 60.482-2a(f); 4) Number of compressors subject to the requirements of 40 CFR 60.482-3a, excluding those compressors designated for no detectable emissions under the provisions of 40 CFR 60.482-3a(i) and those compressors complying with 40 CFR 60.482-3a(h); and 5) Number of connectors subject to the requirements of 40 CFR 60.482-11a. [40 CFR 60.487a(b)] Federally Enforceable Through Title V Permit
116. All semiannual reports to the Administrator shall include the following information, summarized from the information in 40 CFR 60.486a: 1) Process unit identification; 2) For each month during the semiannual reporting period, i) Number of valves for which leaks were detected as described in 40 CFR 60.482-7a(b) or 40 CFR 60.483-2a, (ii) Number of valves for which leaks were not repaired as required in 40 CFR 60.482-7a(d)(1), (iii) Number of pumps for which leaks were detected as described in 40 CFR 60.482-2a(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii), (iv) Number of pumps for which leaks were not repaired as required in 40 CFR 60.482-2a(c)(1) and (d)(6), (v) Number of compressors for which leaks were detected as described in 40 CFR 60.482-3a(f), (vi) Number of compressors for which leaks were not repaired as required in 40 CFR 60.482-3a(g)(1), (vii) Number of connectors for which leaks were detected as described in 40 CFR 40 CFR 60.482-11a(b), (viii) Number of connectors for which leaks were not repaired as required in 40 CFR 60.482-11a(d), and (ix) The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible; 3) Dates of process unit shutdowns which occurred within the semiannual reporting period; 4) Revisions to items reported in semiannual report if changes have occurred since the initial report, as required in 40 CFR 60.487a(a) and (b), or subsequent revisions to the initial report. [40 CFR 60.487a(c)] Federally Enforceable Through Title V Permit
117. An owner or operator electing to comply with the provisions of 40 CFR 60.483-1a and 60.483-2a shall notify the Administrator of the alternative standard selected 90 days before implementing either of the provisions. [40 CFR 60.487a(d)] Federally Enforceable Through Title V Permit
118. An owner or operator shall report the results of all performance tests in accordance with 40 CFR 60.8 of the General Provisions. The provisions of 40 CFR 60.8(d) do not apply to affected facilities subject to the provisions of Subpart VVa except that an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests. [40 CFR 60.487a(e)] 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.

119. The semiannual reporting requirements of 40 CFR 60.487a(a), (b), and (c) remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Clean Air Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with the requirements of 40 CFR 60.487a(a), (b), and (c), provided that they comply with the requirements established by the State. [40 CFR 60.487a(f)] Federally Enforceable Through Title V Permit
120. The operator shall meet operating, inspection and re-inspection, maintenance, process pressure relief device (PRD) and component identification requirements of District Rule 4455 (4/20/05) for all components containing or contacting VOC, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455, 5.0] Federally Enforceable Through Title V Permit
121. The operator shall not use any component that leaks in excess of the allowable leak standards, except as follows. A component identified as leaking in excess of an allowable leak standard may be used provided it has been identified with a tag for repair, has been repaired, or is awaiting re-inspection after repair, within the applicable time period specified within the Rule. [District Rule 4455, 5.1.1] Federally Enforceable Through Title V Permit
122. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455, 5.1.2] Federally Enforceable Through Title V Permit
123. A component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the Rule exist at the facility. [District Rule 4455, 5.1.4] Federally Enforceable Through Title V Permit
124. The operator shall audio-visually inspect for leaks all accessible operating pumps, compressors and PRD in service at least once every 24 hours, except when operators do not report to the facility for that given 24 hours. Any identified leak that cannot be immediately repaired shall be re-inspected within 24 hours using EPA Method 21. If a leak is found, it shall be repaired as soon as practical but not later than the time frame specified in Table 3 of the Rule. [District Rule 4455, 5.2.1 and 5.2.2] Federally Enforceable Through Title V Permit
125. The operator shall inspect all components at least once every calendar quarter. All new, replaced, or repaired fittings, flanges and threaded connections shall be inspected immediately after being placed into service. Inaccessible components, unsafe-to-monitor components and pipes shall be inspected in accordance with the requirements set forth in Sections 5.2.5 through 5.2.7. Components shall be inspected using EPA Method 21. [District Rule 4455, 5.2.3, 5.2.4, 5.2.5, 5.2.6, and 5.2.7] Federally Enforceable Through Title V Permit
126. The operator may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually for a component type, provided the operator meets all the criteria specified in Sections 5.2.8.1 through 5.2.8.3 of the rule. This approval shall apply to accessible component types, specifically designated by the APCO, except pumps, compressors, and PRDs, which shall continue to be inspected on a quarterly basis. [District Rule 4455, 5.2.8] Federally Enforceable Through Title V Permit
127. An annual inspection frequency approved by the APCO shall revert to quarterly inspection frequency for a component type if either the operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2 and 5.3 of Rule 4455 exists for that component type, or the APCO issued a Notice of Violation for violating any of the provisions of Rule 4455 during the annual inspection period for that component type. When the inspection frequency changes from annual to quarterly inspections, the operator shall notify the APCO in writing within five calendar days after changing the inspection frequency, giving the reason(s) and date of change to quarterly inspection frequency. [District Rule 4455, 5.2.9 and 5.2.10] Federally Enforceable Through Title V Permit
128. The operator shall initially inspect a process PRD that releases to the atmosphere as soon as practicable but not later than 24 hours after the time of the release. To insure that the process PRD is operating properly, and is leak-free, the operator shall re-inspect the process PRD not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the release using EPA Method 21. If the process PRD is found to be leaking at either inspection, the PRD leak shall be treated as if the leak was found during quarterly operator inspections. [District Rule 4455, 5.2.11] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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129. Except for process PRD, a component shall be inspected within 15 calendar days after repairing the leak or replacing the component using EPA Method 21. [District Rule 4455, 5.2.12] Federally Enforceable Through Title V Permit
130. Upon detection of a leaking component, the operator shall affix to that component a weatherproof readily visible tag. The tag shall remain affixed to the component until the leaking component has been repaired or replaced; has been re-inspected using EPA Method 21; and is found to be in compliance with the requirements of Rule 4455. [District Rule 4455, 5.3.1 and 5.3.2] Federally Enforceable Through Title V Permit
131. The tag shall include date and time of leak detection, date and time of leak measurement, indicate the leak concentration in ppmv (gas leaks), indicate whether it is a major or a minor leak (liquid leaks) and whether the leaking component is an essential component, unsafe-to-monitor component or critical component. [District Rule 4455, 5.3.3] Federally Enforceable Through Title V Permit
132. All component leaks shall be immediately minimized to the extent possible, but not later than one hour after detection of leaks, in order to stop or reduce leakage to the atmosphere. As soon as practicable but not later than the time period specified in Table 3 of the Rule, components that have been identified as leaking and have had emissions minimized to the extent possible but do not meet the applicable leak standards of the Rule shall either be: 1) repaired or replaced, or 2) vented to a closed vent system, or 3) removed from operation. [District Rule 4455, 5.3.4 and 5.3.5] Federally Enforceable Through Title V Permit
133. For any leaking component that is an essential or critical component, and which cannot be immediately shut down for repairs, the operator shall minimize the leak within one hour after detection of the leak. If the leak has been minimized but still exceeds any of the applicable leak standards of this Rule, the operator shall repair or replace the component to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier. [District Rule 4455, 5.3.6] Federally Enforceable Through Title V Permit
134. For any component that has incurred five repair actions for major gas leaks or major liquid leaks (any combination) within a continuous 12-month period, the operator shall as soon as practicable but not later than 12 months after the date of detection either: 1) replace or retrofit the component with the control technology specified in Table 4 of Rule 4455, or 2) replace the component with Best Available Control Technology (BACT) equipment, as approved by the APCO, or 3) vent the component to an APCO approved closed vent system as defined in Section 3.0 of Rule 4455, or 4) remove the component from operation. Inaccessible components, unsafe-to-monitor components, essential components, or critical components shall satisfy the above-listed requirement as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes earlier. The APCO shall be notified in writing prior to the replacement or retrofitting of any component. [District Rule 4455, 5.3.7] Federally Enforceable Through Title V Permit
135. The operator shall monitor process PRD by using electronic process control instrumentation that allows for real time continuous parameter monitoring or by using telltale indicators for the process PRD where parameter monitoring is not feasible. [District Rule 4455, 5.4.1] Federally Enforceable Through Title V Permit
136. The operator shall comply with the process PRD release notification and recordkeeping requirements specified in Section 6.3 of Rule 4455. After a release from process PRD in excess of 500 pounds of VOC in a continuous 24-hour period, the operator shall immediately conduct a failure analysis and implement corrective actions as soon as practicable but not later than 30 days to prevent the reoccurrence of similar release. [District Rule 4455, 5.4.3 and 5.4.4] Federally Enforceable Through Title V Permit
137. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other APCO-approved system that enables an operator or District personnel to locate each individual component. The operator shall replace tags or labels that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4455, 5.5] 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.

138. The operator shall keep a copy of the OMP at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing approved Operator Management Plan. [District Rule 4455, 6.1.2 and 6.1.4] Federally Enforceable Through Title V Permit
139. Operator shall maintain an inspection log containing the information set forth in Sections 6.2.1.1 through 6.2.1.10 of Rule 4455. [District Rule 4455, 6.2.1] Federally Enforceable Through Title V Permit
140. The operator shall notify the APCO, by telephone or other APCO-approved methods, of any process PRD release in excess of 500 pounds of VOC in a continuous 24-hour period, and any release in excess of the reportable quantity limits as stipulated in 40 CFR, Part 117, Part 302 and Part 355, including any release in excess of 100 pounds of VOC, within one hour of such occurrence or within one hour of the time said person knew or reasonably should have known of its occurrence. The operator shall submit a written report to the APCO within thirty calendar days of following notification of process PRD release subject to 6.3.1 of Rule 4455. The written report shall include all of the information set forth in Sections 6.3.2.1 through 6.3.2.5 of Rule 4455. [District Rule 4455, 6.3] Federally Enforceable Through Title V Permit
141. Measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument, calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. Operator shall keep a record of each instrument calibration in accordance with requirements as set forth Section 6.2.3 of Rule 4455. [District Rule 4455, 6.4] Federally Enforceable Through Title V Permit
142. On January 31, 2013, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-1-2

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

GRAIN RECEIVING AND HANDLING OPERATION CONSISTING OF TWO ENCLOSED CORN BELT CONVEYORS, TWO TRANSFER ELEVATORS, ONE STORAGE BIN, ONE BIN-WEIGH SYSTEM, ONE SCALPER, ONE SURGE BIN, AND ASSOCIATED CONVEYING EQUIPMENT. THE STORAGE AND SURGE BINS ARE SERVED BY BIN VENT FILTERS. THE ELEVATORS, BIN-WEIGH SYSTEM, AND SCALPER ARE SERVED BY A DONALDSON TORIT MODEL 81MBT8 BAGHOUSE.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Visible emissions from the exhaust of the baghouse serving this operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The material removed from the baghouse shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The differential pressure, as indicated by the pressure differential gauge on the baghouse, shall stay between 1.0 to 5.0 inches of water column when grain receiving and handling process is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The amount of material received shall not exceed 7,200 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The amount of material received shall not exceed 700,000 tons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
11. PM10 emissions shall not exceed 0.000368 pounds per ton of material received. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The permittee shall maintain records of the amount of material received, in tons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The permittee shall maintain records of the amount of material received, in tons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. The baghouse bags shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Records of all maintenance of the baghouse system, including all change outs of bags or filter media, shall be maintained. These records shall include identification of the equipment, date of inspection, any corrective action taken, and identification of the personnel performing the inspection. [District Rules 2201 and 2520 9.4.2] Federally Enforceable Through Title V Permit
18. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-2-2

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

GRAIN GRINDING OPERATION #1 CONSISTING OF ONE JACOBSON MODEL MZH HAMMERMILL (OR EQUAL) AND ASSOCIATED CONVEYING EQUIPMENT SERVED BY A SHARED DONALDSON TORIT MODEL 162MBT10 BAGHOUSE. THE BAGHOUSE IS SHARED WITH UNITS N-7488-3 AND N-7488-4.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Visible emissions from the exhaust of the baghouse serving this operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The material removed from the baghouse shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The differential pressure, as indicated by the pressure differential gauge on the baghouse, shall stay between 1.0 to 5.0 inches of water column when grain grinding process is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0011 pounds per ton of material processed. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The amount of material processed by this hammermill shall not exceed 2,400 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The combined amount of material processed by the units under permits N-7488-2, N-7488-3 and N-7488-4 shall not exceed 2,400 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The combined amount of material processed by the units under permits N-7488-2, N-7488-3 and N-7488-4 shall not exceed 700,000 tons in any 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The permittee shall maintain records of the material processed by this hammermill. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The permittee shall maintain records of the combined amount of material processed, in tons, by the units under permits N-7488-2, N-7488-3 and N-7488-4 on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The permittee shall maintain records of the combined amount of material processed, in tons, by the units under permits N-7488-2, N-7488-3 and N-7488-4 in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The baghouse bags shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Records of all maintenance of the baghouse system, including all change outs of bags or filter media, shall be maintained. These records shall include identification of the equipment, date of inspection, any corrective action taken, and identification of the personnel performing the inspection. [District Rules 2201 and 2520 9.4.2] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-3-2

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

GRAIN GRINDING OPERATION #2 CONSISTING OF ONE JACOBSON MODEL MZH HAMMERMILL (OR EQUAL) AND ASSOCIATED CONVEYING EQUIPMENT SERVED BY A SHARED DONALDSON TORIT MODEL 162MBT10 BAGHOUSE. THE BAGHOUSE IS SHARED WITH UNITS N-7488-2 AND N-7488-4.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Visible emissions from the exhaust of the baghouse serving this operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The material removed from the baghouse shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The differential pressure, as indicated by the pressure differential gauge on the baghouse, shall stay between 1.0 to 5.0 inches of water column when grain grinding process is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0011 pounds per ton of material processed. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The amount of material processed by this hammermill shall not exceed 2,400 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The combined amount of material processed by the units under permits N-7488-2, N-7488-3 and N-7488-4 shall not exceed 2,400 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The combined amount of material processed by the units under permits N-7488-2, N-7488-3 and N-7488-4 shall not exceed 700,000 tons in any 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The permittee shall maintain records of the material processed by this hammermill. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The permittee shall maintain records of the combined amount of material processed, in tons, by the units under permits N-7488-2, N-7488-3 and N-7488-4 on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The permittee shall maintain records of the combined amount of material processed, in tons, by the units under permits N-7488-2, N-7488-3 and N-7488-4 in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The baghouse bags shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Records of all maintenance of the baghouse system, including all change outs of bags or filter media, shall be maintained. These records shall include identification of the equipment, date of inspection, any corrective action taken, and identification of the personnel performing the inspection. [District Rules 2201 and 2520 9.4.2] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-7488-4-2

EXPIRATION DATE: 11/30/2017

## EQUIPMENT DESCRIPTION:

GRAIN GRINDING OPERATION #3 CONSISTING OF ONE JACOBSON MODEL MZH HAMMERMILL (OR EQUAL) AND ASSOCIATED CONVEYING EQUIPMENT SERVED BY A SHARED DONALDSON TORIT MODEL 162MBT10 BAGHOUSE. THE BAGHOUSE IS SHARED WITH UNITS N-7488-2 AND N-7488-3.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Visible emissions from the exhaust of the baghouse serving this operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The material removed from the baghouse shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The differential pressure, as indicated by the pressure differential gauge on the baghouse, shall stay between 1.0 to 5.0 inches of water column when grain grinding process is operating. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.0011 pounds per ton of material processed. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The amount of material processed by this hammermill shall not exceed 2,400 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The combined amount of material processed by the units under permits N-7488-2, N-7488-3 and N-7488-4 shall not exceed 2,400 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The combined amount of material processed by the units under permits N-7488-2, N-7488-3 and N-7488-4 shall not exceed 700,000 tons in any 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The permittee shall maintain records of the material processed by this hammermill. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The permittee shall maintain records of the combined amount of material processed, in tons, by the units under permits N-7488-2, N-7488-3 and N-7488-4 on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The permittee shall maintain records of the combined amount of material processed, in tons, by the units under permits N-7488-2, N-7488-3 and N-7488-4 in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The baghouse bags shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Records of all maintenance of the baghouse system, including all change outs of bags or filter media, shall be maintained. These records shall include identification of the equipment, date of inspection, any corrective action taken, and identification of the personnel performing the inspection. [District Rules 2201 and 2520 9.4.2] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-5-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

LIQUEFACTION PROCESS CONSISTING OF ONE 9,050 GALLON COOK WATER TANK, ONE 64,374 GALLON SLURRY MIXING TANK, ONE 7,700 GALLON COOK TUBE, ONE 3,000 GALLON COOK FLASH TANK, ONE 64,370 GALLON INITIAL LIQUEFACTION TANK, ONE 64,374 GALLON FINAL LIQUEFACTION TANK, RELATED PUMPS, VALVES, HEAT EXCHANGERS, AND PIPING, AND AN ENVITECH 2-STAGE PROCESS VENT CONDENSER WITH A 550 GALLON WATER RECIRCULATION TANK (SHARED WITH UNITS N-7488-7 AND -8) SERVED BY A NESTEC 1.68 MMBTU/HR NATURAL GAS-FIRED REGENERATIVE THERMAL OXIDIZER (RTO). THE RTO SERVES UNIT N-7488-5, -6, -7, AND -8.

## PERMIT UNIT REQUIREMENTS

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1. The tanks shall be vented to a closed vapor recovery system that collects all VOCs from the equipment and vents them to the process vent condenser and the RTO system. The vapor recovery system shall be maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
4. VOC content in the fluid handled by the final liquefaction tank shall be less than or equal to 10% by weight. The permittee shall hire a third party contractor to take and conduct a sample analysis, within 60 days of recommencing the operation, to demonstrate compliance with this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
5. There shall be no VOC emissions from the pumps, valves, flanges or other piping components under this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The RTO shall be fired only on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The RTO chamber temperature shall be maintained at a minimum temperature of 1,500 degrees Fahrenheit before incinerating the vapors. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions from the RTO stack shall not exceed 0.072 lb/1,000 gallons of ethanol produced. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The overall VOC control efficiency of the process vent condenser and the RTO system shall be at least 99.5% (by weight). [District Rules 2201] Federally Enforceable Through Title V Permit
13. Emissions rates from natural gas combustion in the RTO burner shall not exceed any of the following limits: 0.0182 lb-NO<sub>x</sub>/MMBtu; 0.011 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM<sub>10</sub>/MMBtu; or 0.00285 lb-SO<sub>x</sub>/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Source testing to determine compliance with the VOC emissions rate (lb/1,000 gallon of ethanol produced) and the overall VOC control efficiency (%) shall be conducted at least once every 12 months from the latest source test. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Sampling ports shall be placed at the appropriate locations (i.e. prior to the condenser, after the condenser, at the inlet of the RTO, and at the exhaust outlet of the RTO) to determine compliance with the overall VOC control efficiency (%) of the condenser and the RTO system and the VOC emissions rate (lb/1,000 gallon of ethanol produced). [District Rule 1081] Federally Enforceable Through Title V Permit
17. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
18. All emissions measurements shall be made with the ethanol production equipment operating at conditions representative of normal operations. [District Rule 2201] Federally Enforceable Through Title V Permit
19. During source testing operations and measurements, the actual ethanol production throughput (in gal-ethanol/hr) shall be recorded and submitted as part of the source test results. [District Rule 2201] Federally Enforceable Through Title V Permit
20. VOC emissions shall be measured using EPA Methods 18, 25, or 25A in conjunction with the methodologies specified in the US EPA's "Midwest Scaling Protocol for the Measurement of VOC Mass Emissions and VOC Sampling at Wet and Dry Grain Mills and Ethanol Production Facilities" document. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the chamber temperature of the RTO at least once a day while the laden process stream is vented to the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
24. The permittee shall maintain records of the date, name of the person and company name collecting the fluid sample, and a copy of the results of the fluid sample analysis. [District Rules 2201 and 4455, 40 CFR 60.486a(i)(3)] Federally Enforceable Through Title V Permit
25. Records of RTO inspections and maintenance shall be maintained. These records shall include date of inspection, identification of the individual performing the inspection, and a description of the problem and the corrective action taken. [District Rule 2201] Federally Enforceable Through Title V Permit
26. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]  
Federally Enforceable Through Title V Permit
28. The permittee shall comply with the applicable requirements of Section 6.1 and 7.3 of Rule 4455 (4/20/05). [District Rule 4455, 4.2] Federally Enforceable Through Title V Permit

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

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-5-3 : Jan 9 2013 8:48AM - KAH,LOJ

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-6-3

**EXPIRATION DATE:** 11/30/2017

## **EQUIPMENT DESCRIPTION:**

FERMENTATION PROCESS CONSISTING OF ONE 80,766 GALLON FIXED ROOF PRE-FERMENTOR TANK, THREE 1,152,647 GALLON FIXED-ROOF FERMENTATION TANKS, ONE 1,485,745 GALLON FIXED ROOF BEER WELL TANK, RELATED PUMPS, VALVES, HEAT EXCHANGERS, AND PIPING, AND AN ENVITECH 2-STAGE PROCESS VENT CONDENSER WITH A 1,548 GALLON WATER RECIRCULATION TANK SERVED BY A NESTEC 1.68 MMBTU/HR NATURAL GAS-FIRED REGENERATIVE THERMAL OXIDIZER (RTO). THE RTO SERVES UNIT N-7488-5, -6, -7, AND -8.

## **PERMIT UNIT REQUIREMENTS**

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1. The tanks shall be vented to a closed vapor recovery system that collects all VOCs from the equipment and vents them to the process vent condenser and the RTO system. The vapor recovery system shall be maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
4. Fugitive VOC emissions from component leaks shall not exceed 9.6 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from component leaks shall be calculated using the SOCFI Leak Rate/Screening Value Correlations in Table 2-9 of USEPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017). [District Rule 2201] Federally Enforceable Through Title V Permit
6. The RTO shall be fired only on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The RTO chamber temperature shall be maintained at a minimum temperature of 1,500 degrees Fahrenheit before incinerating the vapors. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions from the RTO stack shall not exceed 0.072 lb/1,000 gallons of ethanol produced. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
10. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The overall VOC control efficiency of the process vent condenser and the RTO system shall be at least 99.5% (by weight). [District Rules 2201] Federally Enforceable Through Title V Permit
13. Emissions rates from natural gas combustion in the RTO burner shall not exceed any of the following limits: 0.0182 lb-NO<sub>x</sub>/MMBtu; 0.011 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM<sub>10</sub>/MMBtu; or 0.00285 lb-SO<sub>x</sub>/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Source testing to determine compliance with the VOC emissions rate (lb/1,000 gallon of ethanol produced) and the overall VOC control efficiency (%) shall be conducted at least once every 12 months from the latest source test. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Sampling ports shall be placed at the appropriate locations (i.e. prior to the condenser, after the condenser, at the inlet of the RTO, and at the exhaust outlet of the RTO) to determine compliance with the overall VOC control efficiency (%) of the condenser and the RTO system and the VOC emissions rate (lb/1,000 gallon of ethanol produced). [District Rule 1081] Federally Enforceable Through Title V Permit
17. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
18. All emissions measurements shall be made with the ethanol production equipment operating at conditions representative of normal operations. [District Rule 2201] Federally Enforceable Through Title V Permit
19. During source testing operations and measurements, the actual ethanol production throughput (in gal-ethanol/hr) shall be recorded and submitted as part of the source test results. [District Rule 2201] Federally Enforceable Through Title V Permit
20. VOC emissions shall be measured using EPA Methods 18, 25, or 25A in conjunction with the methodologies specified in the US EPA's "Midwest Scaling Protocol for the Measurement of VOC Mass Emissions and VOC Sampling at Wet and Dry Grain Mills and Ethanol Production Facilities" document. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the chamber temperature of the RTO at least once a day while the laden process stream is vented to the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Records of RTO inspections and maintenance shall be maintained. These records shall include date of inspection, identification of the individual performing the inspection, and a description of the problem and the corrective action taken. [District Rule 2201] Federally Enforceable Through Title V Permit
25. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit
26. 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
27. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] 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.:

28. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-6-3 : Jan 9 2013 8:48AM - KAHLONJ

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-7488-7-3

EXPIRATION DATE: 11/30/2017

## EQUIPMENT DESCRIPTION:

DISTILLATION PROCESS CONSISTING OF ONE MASH STRIPPER COLUMN, ONE RECTIFIER COLUMN, ONE SIDE-STRIPPER, ONE TWO STAGE MOLECULAR SIEVE, RELATED PUMPS, VALVES, HEAT EXCHANGERS, AND PIPING, AND AN ENVITECH 2-STAGE PROCESS VENT CONDENSER WITH A 550 GALLON WATER RECIRCULATION TANK (SHARED WITH UNITS N-7488-5 AND -8) SERVED BY A NESTEC 1.68 MMBTU/HR NATURAL GAS-FIRED REGENERATIVE THERMAL OXIDIZER (RTO). THE RTO SERVES UNIT N-7488-5, -6, -7, AND -8.

## PERMIT UNIT REQUIREMENTS

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1. The tanks shall be vented to a closed vapor recovery system that collects all VOCs from the equipment and vents them to the process vent condenser and the RTO system. The vapor recovery system shall be maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
4. Fugitive VOC emissions from component leaks shall not exceed 9.8 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from component leaks shall be calculated using the SOCOMI Leak Rate/Screening Value Correlations in Table 2-9 of USEPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017). [District Rule 2201] Federally Enforceable Through Title V Permit
6. The RTO shall be fired only on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The RTO chamber temperature shall be maintained at a minimum temperature of 1,500 degrees Fahrenheit before incinerating the vapors. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions from the RTO stack shall not exceed 0.072 lb/1,000 gallons of ethanol produced. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
10. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-7-3 : Jan 9 2013 8:48AM - KAHLOUJ

12. The overall VOC control efficiency of the process vent condenser and the RTO system shall be at least 99.5% (by weight). [District Rules 2201] Federally Enforceable Through Title V Permit
13. Emissions rates from natural gas combustion in the RTO burner shall not exceed any of the following limits: 0.0182 lb-NO<sub>x</sub>/MMBtu; 0.011 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM<sub>10</sub>/MMBtu; or 0.00285 lb-SO<sub>x</sub>/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Source testing to determine compliance with the VOC emissions rate (lb/1,000 gallon of ethanol produced) and the overall VOC control efficiency (%) shall be conducted at least once every 12 months from the latest source test. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Sampling ports shall be placed at the appropriate locations (i.e. prior to the condenser, after the condenser, at the inlet of the RTO, and at the exhaust outlet of the RTO) to determine compliance with the overall VOC control efficiency (%) of the condenser and the RTO system and the VOC emissions rate (lb/1,000 gallon of ethanol produced). [District Rule 1081] Federally Enforceable Through Title V Permit
17. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
18. All emissions measurements shall be made with the ethanol production equipment operating at conditions representative of normal operations. [District Rule 2201] Federally Enforceable Through Title V Permit
19. During source testing operations and measurements, the actual ethanol production throughput (in gal-ethanol/hr) shall be recorded and submitted as part of the source test results. [District Rule 2201] Federally Enforceable Through Title V Permit
20. VOC emissions shall be measured using EPA Methods 18, 25, or 25A in conjunction with the methodologies specified in the US EPA's "Midwest Scaling Protocol for the Measurement of VOC Mass Emissions and VOC Sampling at Wet and Dry Grain Mills and Ethanol Production Facilities" document. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the chamber temperature of the RTO at least once a day while the laden process stream is vented to the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Records of RTO inspections and maintenance shall be maintained. These records shall include date of inspection, identification of the individual performing the inspection, and a description of the problem and the corrective action taken. [District Rule 2201] Federally Enforceable Through Title V Permit
25. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit
26. 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
27. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
28. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-8-3

**EXPIRATION DATE:** 11/30/2017

## **EQUIPMENT DESCRIPTION:**

DECANTATION PROCESS CONSISTING OF FIVE 130 HP ALFA LAVAL MODEL CHNX 944 DECANter CENTRIFUGES (OR EQUAL), ONE WHOLE STILLAGE HOLDING TANK, ONE FIXED-ROOF THIN STILLAGE HOLDING TANK, ONE CENTRATE TANK, THE EVAPORATION SYSTEM WITH ONE THIN STILLAGE FEED TANK, AND AN ENVITECH 2-STAGE PROCESS VENT CONDENSER WITH A 550 GALLON WATER RECIRCULATION TANK (SHARED WITH UNITS N-7488-5 AND -7) SERVED BY A NESTEC 1.68 MMBTU/HR NATURAL GAS-FIRED REGENERATIVE THERMAL OXIDIZER (RTO). THE RTO SERVES UNIT N-7488-5, -6, -7, AND -8.

## **PERMIT UNIT REQUIREMENTS**

1. The tanks shall be vented to a closed vapor recovery system that collects all VOCs from the equipment and vents them to the process vent condenser and the RTO system. The vapor recovery system shall be maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
4. Fugitive VOC emissions from component leaks shall not exceed 2.9 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from component leaks shall be calculated using the SOCFI Leak Rate/Screening Value Correlations in Table 2-9 of USEPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017). [District Rule 2201] Federally Enforceable Through Title V Permit
6. The RTO shall be fired only on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The RTO chamber temperature shall be maintained at a minimum temperature of 1,500 degrees Fahrenheit before incinerating the vapors. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
9. VOC emissions from the RTO stack shall not exceed 0.072 lb/1,000 gallons of ethanol produced. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
10. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The overall VOC control efficiency of the process vent condenser and the RTO system shall be at least 99.5% (by weight). [District Rules 2201] Federally Enforceable Through Title V Permit
13. Emissions rates from natural gas combustion in the RTO burner shall not exceed any of the following limits: 0.0182 lb-NOx/MMBtu; 0.011 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM10/MMBtu; or 0.00285 lb-SOx/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Source testing to determine compliance with the VOC emissions rate (lb/1,000 gallon of ethanol produced) and the overall VOC control efficiency (%) shall be conducted at least once every 12 months from the latest source test. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Sampling ports shall be placed at the appropriate locations (i.e. prior to the condenser, after the condenser, at the inlet of the RTO, and at the exhaust outlet of the RTO) to determine compliance with the overall VOC control efficiency (%) of the condenser and the RTO system and the VOC emissions rate (lb/1,000 gallon of ethanol produced). [District Rule 1081] Federally Enforceable Through Title V Permit
17. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
18. All emissions measurements shall be made with the ethanol production equipment operating at conditions representative of normal operations. [District Rule 2201] Federally Enforceable Through Title V Permit
19. During source testing operations and measurements, the actual ethanol production throughput (in gal-ethanol/hr) shall be recorded and submitted as part of the source test results. [District Rule 2201] Federally Enforceable Through Title V Permit
20. VOC emissions shall be measured using EPA Methods 18, 25, or 25A in conjunction with the methodologies specified in the US EPA's "Midwest Scaling Protocol for the Measurement of VOC Mass Emissions and VOC Sampling at Wet and Dry Grain Mills and Ethanol Production Facilities" document. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the chamber temperature of the RTO at least once a day while the laden process stream is vented to the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
23. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Records of RTO inspections and maintenance shall be maintained. These records shall include date of inspection, identification of the individual performing the inspection, and a description of the problem and the corrective action taken. [District Rule 2201] Federally Enforceable Through Title V Permit
25. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit
26. 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
27. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] 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.

28. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-8-3 : Jan 9 2013 8:48AM - KAHLOUJ

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-9-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

210,000 GALLON FIXED-ROOF (200 PROOF) ETHANOL STORAGE TANK SERVED BY THE TANK VAPOR RECOVERY SYSTEM. THE TANK VAPOR RECOVERY SYSTEM IS VENTED TO THE BOILERS (PERMIT UNITS N-7488-16, -17, AND -18) OR THE STANDBY FLARE (PERMIT UNIT N-7488-19).

## **PERMIT UNIT REQUIREMENTS**

1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all the VOCs from the storage tank. The vapor recovery system shall be maintained in a leak-free condition. Collected vapors shall be directed to approved control devices with a destruction efficiency of at least 95% by weight as determined by the test method specified in District Rule 4623. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the tank vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
4. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from component leaks shall not exceed 8.7 pounds per day. These emissions are from the components associated with the storage tank, and the tank vapor recovery system including piping and pumping system shared by permits N-7488-9, N-7488-10, N-7488-11, and N-7488-12. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions from component leaks shall be calculated using the SOCM I Leak Rate/Screening Value Correlations in Table 2-9 of USEPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017). [District Rule 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [40 CFR 60.116b(a), District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit
12. The owner or operator shall submit an operating plan, within 30 days of recommencing the operation, for approval by the District, which includes: a) Documentation demonstrating that the control device will achieve the required 95% control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of 0.75 seconds and a minimum temperature of 816 °C is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph; b) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters); c.) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (a), unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies. [40 CFR 60.113b(c)] Federally Enforceable Through Title V Permit
13. The owner or operator of each source that is equipped with a closed vent system and a flare to meet the requirements in 40 CFR 60.112b (a)(3) or (b)(2) shall meet the requirements as specified in the general control device requirements, 40 CFR 60.18 (e) and (f). [40 CFR 60.113b(d)] Federally Enforceable Through Title V Permit
14. The owner or operator shall keep the following records for the closed vent system and control device: 1) A copy of the operating plan; and 2) A record of the measured values of the parameters monitored in accordance with 40 CFR 60.113b(c)(2). [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
15. The owner or operator shall keep the following records for the closed vent system and the flare: 1) A report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6) shall be submitted to the District as required by 40 CFR 60.8 of the General Provisions. The report shall be submitted within 6 months of the initial start-up date; 2) Records shall be kept of all periods of operation during which the flare pilot flame is absent; 3) semiannual reports of all periods recorded in which the pilot flame was absent shall be furnished to the District. [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
16. Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
17. For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)] Federally Enforceable Through Title V Permit
18. Operator shall determine the true vapor pressure of each volatile organic liquid, other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit
19. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
20. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-10-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

210,000 GALLON FIXED-ROOF (200 PROOF) ETHANOL STORAGE TANK SERVED BY THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9

## PERMIT UNIT REQUIREMENTS

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1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all the VOCs from the storage tank. The vapor recovery system shall be maintained in a leak-free condition. Collected vapors shall be directed to approved control devices with a destruction efficiency of at least 95% by weight as determined by the test method specified in District Rule 4623. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the tank vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
4. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from component leaks shall not exceed 0.5 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions from component leaks shall be calculated using the SOCFI Leak Rate/Screening Value Correlations in Table 2-9 of USEPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017). [District Rule 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the amount of ethanol produced, in gallons, on a daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [40 CFR 60.116b(a), District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The owner or operator shall submit an operating plan, within 30 days of recommencing the operation, for approval by the District, which includes: a) Documentation demonstrating that the control device will achieve the required 95% control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of 0.75 seconds and a minimum temperature of 816 °C is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph; b) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters); c.) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (a), unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies. [40 CFR 60.113b(c)] Federally Enforceable Through Title V Permit
13. The owner or operator of each source that is equipped with a closed vent system and a flare to meet the requirements in 40 CFR 60.112b (a)(3) or (b)(2) shall meet the requirements as specified in the general control device requirements, 40 CFR 60.18 (e) and (f). [40 CFR 60.113b(d)] Federally Enforceable Through Title V Permit
14. The owner or operator shall keep the following records for the closed vent system and control device: 1) A copy of the operating plan; and 2) A record of the measured values of the parameters monitored in accordance with 40 CFR 60.113b(c)(2). [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
15. The owner or operator shall keep the following records for the closed vent system and the flare: 1) A report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6) shall be submitted to the District as required by 40 CFR 60.8 of the General Provisions. The report shall be submitted within 6 months of the initial start-up date; 2) Records shall be kept of all periods of operation during which the flare pilot flame is absent; 3) semiannual reports of all periods recorded in which the pilot flame was absent shall be furnished to the District. [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
16. Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
17. For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)]
18. Operator shall determine the true vapor pressure of each volatile organic liquid, other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit
19. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
20. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-11-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED-ROOF (190 PROOF) ETHANOL STORAGE TANK SERVED BY THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9

## PERMIT UNIT REQUIREMENTS

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1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all the VOCs from the storage tank. The vapor recovery system shall be maintained in a leak-free condition. Collected vapors shall be directed to approved control devices with a destruction efficiency of at least 95% by weight as determined by the test method specified in District Rule 4623. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the tank vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
4. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from component leaks shall not exceed 0.7 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions from component leaks shall be calculated using the SOCMi Leak Rate/Screening Value Correlations in Table 2-9 of USEPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017). [District Rule 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [40 CFR 60.116b(a), District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The owner or operator shall submit an operating plan, within 30 days of recommencing the operation, for approval by the District, which includes: a) Documentation demonstrating that the control device will achieve the required 95% control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of 0.75 seconds and a minimum temperature of 816 °C is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph; b) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters); c.) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (a), unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies. [40 CFR 60.113b(c)] Federally Enforceable Through Title V Permit
13. The owner or operator of each source that is equipped with a closed vent system and a flare to meet the requirements in 40 CFR 60.112b (a)(3) or (b)(2) shall meet the requirements as specified in the general control device requirements, 40 CFR 60.18 (e) and (f). [40 CFR 60.113b(d)] Federally Enforceable Through Title V Permit
14. The owner or operator shall keep the following records for the closed vent system and control device: 1) A copy of the operating plan; and 2) A record of the measured values of the parameters monitored in accordance with 40 CFR 60.113b(c)(2). [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
15. The owner or operator shall keep the following records for the closed vent system and the flare: 1) A report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6) shall be submitted to the District as required by 40 CFR 60.8 of the General Provisions. The report shall be submitted within 6 months of the initial start-up date; 2) Records shall be kept of all periods of operation during which the flare pilot flame is absent; 3) semiannual reports of all periods recorded in which the pilot flame was absent shall be furnished to the District. [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
16. Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
17. For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)] Federally Enforceable Through Title V Permit
18. Operator shall determine the true vapor pressure of each volatile organic liquid, other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit
19. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
20. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-12-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

1,050,000 GALLON FIXED-ROOF DENATURED ETHANOL STORAGE TANK SERVED BY THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9

## PERMIT UNIT REQUIREMENTS

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1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all the VOCs from the storage tank. The vapor recovery system shall be maintained in a leak-free condition. Collected vapors shall be directed to approved control devices with a destruction efficiency of at least 95% by weight as determined by the test method specified in District Rule 4623. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the tank vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
4. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from component leaks shall not exceed 0.5 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions from component leaks shall be calculated using the SOCM I Leak Rate/Screening Value Correlations in Table 2-9 of USEPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017). [District Rule 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
11. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [40 CFR 60.116b(a), District Rules 1070, 2201, 4455, and 4623] 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.

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-12-3; Jan 9 2013 8:46AM - KAH/LONJ

12. The owner or operator shall submit an operating plan, within 30 days of recommencing the operation, for approval by the District, which includes: a) Documentation demonstrating that the control device will achieve the required 95% control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of 0.75 seconds and a minimum temperature of 816 °C is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph; b) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters); c.) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (a), unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies. [40 CFR 60.113b(c)] Federally Enforceable Through Title V Permit
13. The owner or operator of each source that is equipped with a closed vent system and a flare to meet the requirements in 40 CFR 60.112b (a)(3) or (b)(2) shall meet the requirements as specified in the general control device requirements, 40 CFR 60.18 (e) and (f). [40 CFR 60.113b(d)] Federally Enforceable Through Title V Permit
14. The owner or operator shall keep the following records for the closed vent system and control device: 1) A copy of the operating plan; and 2) A record of the measured values of the parameters monitored in accordance with 40 CFR 60.113b(c)(2). [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
15. The owner or operator shall keep the following records for the closed vent system and the flare: 1) A report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6) shall be submitted to the District as required by 40 CFR 60.8 of the General Provisions. The report shall be submitted within 6 months of the initial start-up date; 2) Records shall be kept of all periods of operation during which the flare pilot flame is absent; 3) semiannual reports of all periods recorded in which the pilot flame was absent shall be furnished to the District. [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
16. Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
17. For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)] Federally Enforceable Through Title V Permit
18. Operator shall determine the true vapor pressure of each volatile organic liquid, other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit
19. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
20. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-13-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

30,000 GALLON GASOLINE STORAGE TANK WITH TWO UNLOADING RACKS (SHARED WITH PERMIT N-7488-14) SERVED BY A BALANCE-TYPE VAPOR RECOVERY SYSTEM. THE STORAGE TANK IS VENTED TO THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9.

## PERMIT UNIT REQUIREMENTS

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1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all the VOCs from the storage tank. The vapor recovery system shall be maintained in a leak-free condition. Collected vapors shall be directed to approved control devices with a destruction efficiency of at least 95% by weight as determined by the test method specified in District Rule 4623. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the tank vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
4. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rules 2201 and 4623]
5. Vapor return hose(s) shall be attached whenever the unloading equipment operates. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The number of gasoline hose disconnects performed at the gasoline truck unloading operation for both permit units N-7488-13 and N-7488-14 shall not exceed 18 disconnects per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The number of gasoline hose disconnects performed at the gasoline truck unloading operation for both permit units N-7488-13 and N-7488-14 shall not exceed 904 disconnects in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The organic liquid spillage rate shall not exceed 0.017 pounds per disconnection, equivalent to 10 mL per disconnection. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The permittee shall maintain records of the number of disconnections made at the gasoline unloading operation for both permit units N-7488-13 and N-7488-14 on a daily-basis. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the number of disconnections made at the gasoline unloading operation for both permit units N-7488-13 and N-7488-14 in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
15. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [40 CFR 60.116b(a), District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit
16. The owner or operator shall submit an operating plan, within 30 days of recommencing the operation, for approval by the District, which includes: a) Documentation demonstrating that the control device will achieve the required 95% control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of 0.75 seconds and a minimum temperature of 816 °C is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph; b) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters); c.) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (a), unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies. [40 CFR 60.113b(c)] Federally Enforceable Through Title V Permit
17. The owner or operator of each source that is equipped with a closed vent system and a flare to meet the requirements in 40 CFR 60.112b (a)(3) or (b)(2) shall meet the requirements as specified in the general control device requirements, 40 CFR 60.18 (e) and (f). [40 CFR 60.113b(d)] Federally Enforceable Through Title V Permit
18. The owner or operator shall keep the following records for the closed vent system and control device: 1) A copy of the operating plan; and 2) A record of the measured values of the parameters monitored in accordance with 40 CFR 60.113b(c)(2). [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
19. The owner or operator shall keep the following records for the closed vent system and the flare: 1) A report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6) shall be submitted to the District as required by 40 CFR 60.8 of the General Provisions. The report shall be submitted within 6 months of the initial start-up date; 2) Records shall be kept of all periods of operation during which the flare pilot flame is absent; 3) semiannual reports of all periods recorded in which the pilot flame was absent shall be furnished to the District. [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
20. Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
21. For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

22. Maximum true vapor pressure, for crude oil or refined petroleum products, may be determined from nomographs contained in API Bulletin 2517, by using the typical Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product, unless the APCO specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s). [40 CFR 60.116b(e)(2)(i)] Federally Enforceable Through Title V Permit
23. Operator shall determine the true vapor pressure of each volatile organic liquid, other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit
24. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
25. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-13-3 : Jan 9 2013 8:48AM - KAHLONJ

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-14-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

30,000 GALLON GASOLINE STORAGE TANK WITH TWO UNLOADING RACKS (SHARED WITH PERMIT N-7488-13) SERVED BY A BALANCE-TYPE VAPOR RECOVERY SYSTEM. THE STORAGE TANK IS VENTED TO THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9.

## PERMIT UNIT REQUIREMENTS

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1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all the VOCs from the storage tank. The vapor recovery system shall be maintained in a leak-free condition. Collected vapors shall be directed to approved control devices with a destruction efficiency of at least 95% by weight as determined by the test method specified in District Rule 4623. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
2. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 100 ppmv for valves and connectors and 500 ppmv for pump seals, above background, is a violation of this permit and Rule 2201 and shall be reported as a deviation. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. [40 CFR 60.112b(a)(3), District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
3. Any tank gauging or sampling device on a tank vented to the tank vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
4. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
5. Vapor return hose(s) shall be attached whenever the unloading equipment operates. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The number of gasoline hose disconnects performed at the gasoline truck unloading operation for both permit units N-7488-13 and N-7488-14 shall not exceed 18 disconnects per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The number of gasoline hose disconnects performed at the gasoline truck unloading operation for both permit units N-7488-13 and N-7488-14 shall not exceed 904 disconnects in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The organic liquid spillage rate shall not exceed 0.017 pounds per disconnection, equivalent to 10 mL per disconnection. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit

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

11. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The permittee shall maintain records of the number of disconnections made at the gasoline unloading operation for both permit units N-7488-13 and N-7488-14 on a daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the number of disconnections made at the gasoline unloading operation for both permit units N-7488-13 and N-7488-14 in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
15. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [40 CFR 60.116b(a), District Rules 1070, 2201, 4455, and 4623] Federally Enforceable Through Title V Permit
16. The owner or operator shall submit an operating plan, within 30 days of recommencing the operation, for approval by the District, which includes: a) Documentation demonstrating that the control device will achieve the required 95% control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of 0.75 seconds and a minimum temperature of 816 °C is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph; b) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters); c.) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (a), unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies. [40 CFR 60.113b(c)] Federally Enforceable Through Title V Permit
17. The owner or operator of each source that is equipped with a closed vent system and a flare to meet the requirements in 40 CFR 60.112b (a)(3) or (b)(2) shall meet the requirements as specified in the general control device requirements, 40 CFR 60.18 (e) and (f). [40 CFR 60.113b(d)] Federally Enforceable Through Title V Permit
18. The owner or operator shall keep the following records for the closed vent system and control device: 1) A copy of the operating plan; and 2) A record of the measured values of the parameters monitored in accordance with 40 CFR 60.113b(c)(2). [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
19. The owner or operator shall keep the following records for the closed vent system and the flare: 1) A report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6) shall be submitted to the District as required by 40 CFR 60.8 of the General Provisions. The report shall be submitted within 6 months of the initial start-up date; 2) Records shall be kept of all periods of operation during which the flare pilot flame is absent; 3) semiannual reports of all periods recorded in which the pilot flame was absent shall be furnished to the District. [40 CFR 60.115b(c)] Federally Enforceable Through Title V Permit
20. Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
21. For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

22. Maximum true vapor pressure, for crude oil or refined petroleum products, may be determined from nomographs contained in API Bulletin 2517, by using the typical Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product, unless the APCO specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s). [40 CFR 60.116b(e)(2)(i)] Federally Enforceable Through Title V Permit
23. Operator shall determine the true vapor pressure of each volatile organic liquid, other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit
24. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
25. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-15-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

TWO ETHANOL LOADING RACKS SERVED BY A BALANCE-TYPE VAPOR RECOVERY SYSTEM

## **PERMIT UNIT REQUIREMENTS**

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1. The ethanol production rate shall not exceed 210,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The ethanol production rate shall not exceed 70,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Vapor return hose(s) shall be attached whenever loading equipment operates. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All trucks loaded shall be inspected and determined to be vapor-tight such that all vapors are displaced into vapor return hoses during loading. [District Rule 2201] Federally Enforceable Through Title V Permit
5. All vapors displaced from trucks during load-out shall be returned to the vapor recovery system covered under permit N-7488-9. [District Rule 2201] Federally Enforceable Through Title V Permit
6. All trucks shall be bottom loaded (or submerge loaded) using dry breaker couplers. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The number of denatured ethanol hose disconnects shall not exceed 160 disconnects per day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The number of denatured ethanol hose disconnects shall not exceed 32,500 disconnects in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The amount of denatured ethanol loaded into trucks shall not exceed 328,000 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The amount of denatured ethanol loaded into trucks shall not exceed 75,000,000 gallons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The organic liquid spillage rate shall not exceed 0.017 pounds per disconnection, equivalent to 10 mL per disconnection. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The permittee shall maintain records of the amount of ethanol produced, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The permittee shall maintain records of the amount of ethanol produced, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of the number of disconnection made on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The permittee shall maintain records of the number of disconnection made in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit

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

16. The permittee shall maintain records of the amount of denatured ethanol loaded, in gallons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The permittee shall maintain records of the amount of denatured ethanol loaded, in gallons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
18. A leak is defined as the dripping of VOC containing liquid at a rate of more than 3 drops per minute; or detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane. [District Rule 4624] Federally Enforceable Through Title V Permit
19. The operator shall inspect the vapor collection system, the vapor disposal system, and each transfer rack handling organic liquids for leaks during transfer at least once every calendar quarter. The leak inspections shall be performed during product transfer using a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Method 21. The instrument shall be calibrated with methane in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument. [District Rule 4624] Federally Enforceable Through Title V Permit
20. All equipment that are found leaking shall be repaired or replaced within 72 hours. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be re-inspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit
21. An operator may apply for a written approval from the District to change the inspection frequency from quarterly to annually provided no leaks were found during the inspections during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection the frequency would revert back to quarterly and the operator shall contact the District in writing within 14 days. [District Rule 4624] Federally Enforceable Through Title V Permit
22. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded shall not exceed 18 inches water column pressure and 6 inches water column vacuum. [District Rule 4624] Federally Enforceable Through Title V Permit
23. The operator shall keep records of leak inspections including the date, name of component and its location and measured ppmv value, name of the operator and the company conducting the leak inspection. [District Rule 4624] Federally Enforceable Through Title V Permit
24. All records shall be maintained on-site for a period of at least five years, and shall be made readily available to the APCO, ARB and US EPA upon request. [District Rules 1070, 2201, 4455, and 4624] Federally Enforceable Through Title V Permit
25. This operation shall comply with the requirements of 40 CFR Part 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, as specified on facility-wide permit N-7488-0. [40 CFR 60.480, 60.482] Federally Enforceable Through Title V Permit
26. This operation shall comply with the requirements of District Rule 4455, Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants, as specified on facility-wide permit N-7488-0. [District Rule 4455] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-16-4

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

99 MMBTU/HR VICTORY ENERGY VOYAGER BOILER WITH A TODD RMB ULTRA-LOW NOX BURNER AND A FLUE GAS RECIRCULATION SYSTEM. THE BOILER PROVIDES PROCESS STEAM AND ALSO SERVES AS A CONTROL DEVICE TO INCINERATE ANY NON-CONDENSABLE VAPORS FROM THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Only two of the three boilers under permit units N-7488-16, 17, and 18 shall be fired simultaneously. [District Rule 2201] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
4. The unit shall be primarily fired on PUC-regulated natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
5. The unit shall be used to incinerate vapors from the tank vapor recovery system covered under permit N-7488-9. [District Rule 2201] Federally Enforceable Through Title V Permit
6. NOx (as NO<sub>2</sub>) emissions shall not exceed 7 ppmvd @ 3% O<sub>2</sub>. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
7. CO emissions shall not exceed 15 ppmvd @ 3% O<sub>2</sub>. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
8. VOC emissions shall not exceed 0.004 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM<sub>10</sub> emissions shall not exceed 0.0044 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every 12 months from the latest source test. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every 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 12 months. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
13. All emissions measurements shall be made with the ethanol production equipment operating at conditions representative of normal operations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
17. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
18. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. Fuel sulfur content shall be determined using EPA Method 11 or EPA Method 15 or District, CARB and EPA approved alternative methods. [District Rule 4320] Federally Enforceable Through Title V Permit
20. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
22. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. If either the NO<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
24. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15-consecutive-minute period by either taking a cumulative 15-consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15-consecutive-minute period. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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, 4306 and 4320] Federally Enforceable Through Title V Permit
27. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
28. The permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
29. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-17-4

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

99 MMBTU/HR VICTORY ENERGY VOYAGER BOILER WITH A TODD RMB ULTRA-LOW NOX BURNER AND A FLUE GAS RECIRCULATION SYSTEM. THE BOILER PROVIDES PROCESS STEAM AND ALSO SERVES AS A CONTROL DEVICE TO INCINERATE ANY NON-CONDENSABLE VAPORS FROM THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Only two of the three boilers under permit units N-7488-16, 17, and 18 shall be fired simultaneously. [District Rule 2201] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
4. The unit shall be primarily fired on PUC-regulated natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
5. The unit shall be used to incinerate vapors from the tank vapor recovery system covered under permit N-7488-9. [District Rule 2201] Federally Enforceable Through Title V Permit
6. NO<sub>x</sub> (as NO<sub>2</sub>) emissions shall not exceed 7 ppmvd @ 3% O<sub>2</sub>. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
7. CO emissions shall not exceed 15 ppmvd @ 3%O<sub>2</sub>. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
8. VOC emissions shall not exceed 0.004 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM<sub>10</sub> emissions shall not exceed 0.0044 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. SO<sub>x</sub> emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing to measure NO<sub>x</sub> and CO emissions from this unit shall be conducted at least once every 12 months from the latest source test. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every 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 12 months. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
13. All emissions measurements shall be made with the ethanol production equipment operating at conditions representative of normal operations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
17. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
18. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. Fuel sulfur content shall be determined using EPA Method 11 or EPA Method 15 or District, CARB and EPA approved alternative methods. [District Rule 4320] Federally Enforceable Through Title V Permit
20. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
22. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. If either the NO<sub>x</sub> or CO concentrations corrected to 3% O<sub>2</sub>, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
24. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15-consecutive-minute period by either taking a cumulative 15-consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15-consecutive-minute period. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 3% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. 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, 4306 and 4320] Federally Enforceable Through Title V Permit
27. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
28. The permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
29. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-7488-18-3

EXPIRATION DATE: 11/30/2017

## EQUIPMENT DESCRIPTION:

99 MMBTU/HR VICTORY ENERGY VOYAGER BOILER WITH A TODD RMB ULTRA-LOW NOX BURNER AND A FLUE GAS RECIRCULATION SYSTEM. THE BOILER PROVIDES PROCESS STEAM AND ALSO SERVES AS A CONTROL DEVICE TO INCINERATE ANY NON-CONDENSABLE VAPORS FROM THE TANK VAPOR RECOVERY SYSTEM LISTED ON PERMIT UNIT N-7488-9.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Only two of the three boilers under permit units N-7488-16, 17, and 18 shall be fired simultaneously. [District Rule 2201] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel combusted in the unit shall be installed, utilized and maintained. [40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
4. The unit shall be primarily fired on PUC-regulated natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
5. The unit shall be used to incinerate vapors from the tank vapor recovery system covered under permit N-7488-9. [District Rule 2201] Federally Enforceable Through Title V Permit
6. NOx (as NO<sub>2</sub>) emissions shall not exceed 7 ppmvd @ 3% O<sub>2</sub>. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
7. CO emissions shall not exceed 15 ppmvd @ 3%O<sub>2</sub>. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
8. VOC emissions shall not exceed 0.004 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
9. PM<sub>10</sub> emissions shall not exceed 0.0044 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every 12 months from the latest source test. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every 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 12 months. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
13. All emissions measurements shall be made with the ethanol production equipment operating at conditions representative of normal operations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
17. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
18. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. Fuel sulfur content shall be determined using EPA Method 11 or EPA Method 15 or District, CARB and EPA approved alternative methods. [District Rule 4320] Federally Enforceable Through Title V Permit
20. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
22. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
24. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15-consecutive-minute period by either taking a cumulative 15-consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15-consecutive-minute period. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. 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, 4306 and 4320] Federally Enforceable Through Title V Permit

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

26. 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, 4306 and 4320] Federally Enforceable Through Title V Permit
27. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
28. The permittee shall maintain daily records of the type and quantity of fuel combusted by the boiler. [40 CFR 60.48c(g)] Federally Enforceable Through Title V Permit
29. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-19-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

280,000 SCF/DAY MRW AIR-ASSISTED STANDBY FLARE. THE STANDBY FLARE INCINERATES VAPORS FROM THE TANK VAPOR RECOVERY SYSTEM WHEN THE BOILERS (PERMIT UNITS N-7488-16, -17, AND -18) ARE NOT OPERATING.

## PERMIT UNIT REQUIREMENTS

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1. The standby flare shall be operated only when the boilers are non-operational. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Only PUC-regulated natural gas shall be used as the pilot fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Visible emissions from the standby flare shall not exceed 1/4 Ringelmann or 5% opacity except for three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The standby flare shall incinerate collected vapors from the Tank Vapor Control (TVR) system operated at this facility. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The standby flare shall be equipped with a total gas volume flow meter. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This permit does not authorize the utilization of any engine or other device requiring a separate permit to provide air assist to the standby flare. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The maximum quantity of gas combusted shall not exceed 280,000 scf/day . [District Rule 2201] Federally Enforceable Through Title V Permit
8. The maximum quantity of gas combusted shall not exceed 6,709,333 scf/yr. (Gas combusted = [(280,000 scf/day)(500 hr/yr)(day/24 hr)] + [(2,400 scf/day)(365 day/yr)]. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from the standby flare shall not exceed any of the following (based upon total gas combusted): NOx (as NO<sub>2</sub>): 0.068 lb/MMBtu; SOx (as SO<sub>2</sub>): 0.00285 lb/MMBtu; PM<sub>10</sub>: 0.008 lb/MMBtu; CO: 0.37 lb/MMBtu; or VOC: 0.063 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall maintain accurate records of the daily and annual quantity of gas combusted and the dates and times of operation. The records shall be retained for a period of at least five years and made readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-20-2

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

25,000 GPM COMPOSITE COOLING SOLUTIONS MODEL 4242-150-P6 SERVED BY A HIGH EFFICIENCY DRIFT ELIMINATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012]
3. The drift rate shall not exceed 0.0015%. [District Rule 2201] Federally Enforceable Through Title V Permit
4. PM10 emissions shall not exceed 19.1 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. PM10 emissions shall not exceed 6,971 pounds in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with the PM10 emission limit (lb/day) shall be demonstrated by using the following equation:  $\text{Water Recirculation Rate (gal/day)} \times 8.34 \text{ lb/gal} \times \text{Total Dissolved Solids Concentration in the blowdown water (ppm} \times 10\text{E-06)} \times \text{Design Drift Rate (\%)}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
7. Sampling facilities for testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
8. Compliance with PM10 emission limit shall be determined by blowdown water sample analysis by independent laboratory within 60 days of recommencing the operation and quarterly thereafter. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
9. The permittee shall keep records of daily PM10 emissions in pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall keep records of PM10 emissions in pounds, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-21-3

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

WET DISTILLERS GRAIN (WDG) STORAGE AND TRUCK LOAD-OUT OPERATION WITH MECHANICAL CONVEYORS. WDG IS STORED IN A PARTIALLY ENCLOSED BUILDING. THE COVERED BUILDING IS OPEN ON ONE SIDE FOR TRUCK LOADING. TRUCK LOADING IS ACCOMPLISHED WITH A FRONT-END LOADER.

## PERMIT UNIT REQUIREMENTS

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1. The storage of wet distillers grain (WDG) on-site shall not exceed 48 hours. [District Rule 4102]
2. The amount of WDG processed shall not exceed 1,600 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The amount of WDG processed shall not exceed 550,000 tons in any 12 consecutive month rolling period. [District Rule 2201] Federally Enforceable Through Title V Permit
4. VOC emissions rate from the WDG storage and truck loadout operation shall not exceed 0.0088 lb-VOC/ton-WDG processed. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of the amount of WDG processed through this storage and truck loadout operation, in tons, on daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the amount of WDG processed through this storage and truck loadout operation, in tons, in the latest 12 consecutive month period. [District Rule 2201] Federally Enforceable Through Title V Permit
7. All records shall be retained on site for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7488-22-2

**EXPIRATION DATE:** 11/30/2017

**EQUIPMENT DESCRIPTION:**

400 BHP CUMMINS MODEL CFP11E-F10 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR 60.4207(b)] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Emissions from this IC engine shall not exceed any of the following limits: 3.68 g-NO<sub>x</sub>/bhp-hr, 0.746 g-CO/bhp-hr, or 0.16 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR 60.4205(c)] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed 0.091 g-PM<sub>10</sub>/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]
6. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
7. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
8. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 60.4211(f)]
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-22-2; Jan 9 2013 8:48AM - KAH/LONJ

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-7488-23-1

EXPIRATION DATE: 11/30/2017

## EQUIPMENT DESCRIPTION:

11,221 GALLON CAPACITY HYDRATED LIME RECEIVING AND STORAGE SILO VENTED TO A ZMI PORTEC MODEL DF-48 BIN VENT FILTER WITH AN INTEGRAL 750 GALLON LIME SLURRY MIXING TANK.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. Visible emissions from the dust collector serving the hydrated lime receiving and storage operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The dust collector shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Material removed from the dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Hydrated lime shall not be received or stored without the displaced air being vented through the dust collector. [District Rule 2201] Federally Enforceable Through Title V Permit
8. PM10 emissions shall not exceed 0.000305 pounds per ton of lime received. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The amount of hydrated lime received and stored shall not exceed 32 tons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall maintain daily records of the quantity of hydrated lime received and stored. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The dust collector system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. The dust collector bags shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Records of all maintenance of the baghouse system, including all change outs of bags or filter media, shall be maintained. These records shall include identification of the equipment, date of inspection, any corrective action taken, and identification of the personnel performing the inspection. [District Rules 2201 and 2520 9.4.2] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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

Facility Name: AEMETIS ADVANCED FUELS KEYES INC

Location: 4209 JESSUP ROAD, CERES, CA

N-7488-23-1: Jan 9 2013 8:46AM - KAHLOJ