



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

NOV 25 2014



Ms. Carol Romero
Pacific Ethanol Madera LLC
400 Capital Mall, Suite 2060
Sacramento, CA 95814

**Re: Notice of Significant Title V Permit Modification
District Facility # C-4261
Project # C-1142381**

Dear Ms. Romero:

Enclosed for your review is the District's analysis of an application for a significant Title V permit modification for the facility identified above. Pacific Ethanol Madera LLC is proposing a Title V significant permit modification to correct Title V operating permits C-4261-38-4, '-39-5, '-40-5, '-41-3, '-42-3, and '-43-3 (see enclosures). The facility has requested to remove a condition on each permit that requires an unnecessary quarterly opacity report.

Enclosed are the current Title V permit, the revised Title V permit, engineering evaluation, and application. The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the modified Title V operating permit. Please submit your comments within the 30-day public comment period, as specified in the enclosed public notice.

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

Sincerely,

Arnaud Marjollet
Director of Permit Services

Enclosures

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

Seyed Sadredin

Executive Director/Air Pollution Control Officer

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

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

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

TITLE V APPLICATION REVIEW

Significant Modification

Project #: C-1142381

Engineer: John Yoshimura

Date: October 13, 2014

Facility Number: C-4261

Facility Name: Pacific Ethanol Madera LLC

Mailing Address: 400 Capital Mall, Suite 2060
Sacramento, CA 95814

Contact Name: Carol Romero

Phone: (209) 235-0370

Responsible Official: Mike Kandris

Title: Chief Operating Officer (COO)

I. PROPOSAL

Pacific Ethanol Madera LLC is proposing a Title V significant permit modification to modify the following Title V operating permits: C-4261-38-4, '-39-5, '-40-5, '-41-3, '-42-3, and '-43-3. The facility has requested to remove a condition on each permit that requires an unnecessary quarterly opacity report.

The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements and to provide the legal and factual basis for the proposed revisions.

II. FACILITY LOCATION

Pacific Ethanol Madera is located at 31470 Avenue 12 in Madera, CA.

III. EQUIPMENT DESCRIPTION

Current Permit Equipment Descriptions:

C-4261-38-4: ONE 70,800 GALLON LIQUEFACTION TANK SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-41, '-42 AND '-43)

C-4261-39-5: FERMENTATION PROCESS CONSISTING OF FOUR IDENTICAL 420,000 GALLON FERMENTATION TANKS ALL SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO2") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '-40. RTO ALSO SHARED WITH C-4261-49)

C-4261-40-5: ONE 550,000 GALLON FIXED ROOF BEERWELL PROCESS TANK SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO2") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '-39. RTO ALSO SHARED WITH C-4261-49)

C-4261-41-3: DISTILLATION PROCESS CONSISTING OF ONE DE-GAS VESSEL, ONE BEER STRIPPER, ONE SIDE STRIPPER, ONE RECTIFIER, AND DUAL VESSEL MOLECULAR SIEVE, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-42 AND '-43)

C-4261-42-3: ONE 98,000 GALLON PROCESS CONDENSATE TANK COLLECTING WATER FROM THE FERMENTATION AND THE DISTILLATION SCRUBBERS SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-43)

C-4261-43-3: WET CAKE PROCESS CONSISTING OF ONE 135,600 GALLON WHOLE STILLAGE TANK, ONE CENTRIFUGE SYSTEM, ONE 100,000 GALLON THIN STILLAGE TANK, ONE EVAPORATOR, AND ONE 89,000 GALLON SYRUP TANK, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-42) AND MECHANICAL CONVEYORS

Significant Modification Equipment Descriptions:

C-4261-38-5: MODIFICATION OF ONE 70,800 GALLON LIQUEFACTION TANK SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-41, '-42 AND '-43): REMOVE CONDITION #23

C-4261-39-6: MODIFICATION OF FERMENTATION PROCESS CONSISTING OF FOUR IDENTICAL 420,000 GALLON FERMENTATION TANKS ALL SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO2") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE

THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '-40. RTO ALSO SHARED WITH C-4261-49): REMOVE CONDITION #26

C-4261-40-6: MODIFICATION OF ONE 550,000 GALLON FIXED ROOF BEERWELL PROCESS TANK SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO2") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '-39. RTO ALSO SHARED WITH C-4261-49): REMOVE CONDITION #25

C-4261-41-4: MODIFICATION OF DISTILLATION PROCESS CONSISTING OF ONE DE-GAS VESSEL, ONE BEER STRIPPER, ONE SIDE STRIPPER, ONE RECTIFIER, AND DUAL VESSEL MOLECULAR SIEVE, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-42 AND '-43): REMOVE CONDITION #20

C-4261-42-4: MODIFICATION OF ONE 98,000 GALLON PROCESS CONDENSATE TANK COLLECTING WATER FROM THE FERMENTATION AND THE DISTILLATION SCRUBBERS SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-43): REMOVE CONDITION #23

C-4261-43-4: MODIFICATION OF WET CAKE PROCESS CONSISTING OF ONE 135,600 GALLON WHOLE STILLAGE TANK, ONE CENTRIFUGE SYSTEM, ONE 100,000 GALLON THIN STILLAGE TANK, ONE EVAPORATOR, AND ONE 89,000 GALLON SYRUP TANK, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-42) AND MECHANICAL CONVEYORS: REMOVE CONDITION #23

IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a significant modification because the applicant has requested a relaxation of the recordkeeping and reporting requirements for permit units C-4261-38, '-39, '-40, '-41, '-42, and '-43. As such, this project requires public review.

V. APPLICABLE REQUIREMENTS

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

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

Pacific Ethanol Madera LLC is proposing to modify permit units C-4261-38-4, '-39-5, '-40-5, '-41-3, '-42-3, and '-43-3 by removing the following condition:

- The owner or operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64]

The condition was incorrectly added as a Compliance Assurance Monitoring (CAM) requirement during the previous Title V project (C-1111922). Although CAM is still required for permit units C-4261-38-4, '-39-5, '-40-5, '-41-3, '-42-3, and '-43-3, quarterly opacity reports are not required since the tanks under these permits are vented to a closed system that sends the collected vapors to one of two scrubbers and no visible emissions are expected. The facility has also stated there are no stacks on the storage tanks and processes; therefore, no continuous opacity meters are required.

The following conditions will remain on the permits to show continued compliance with CAM:

- The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64]
- The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64]
- The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64]
- If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64]

- If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64]
- If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64]

There will be no increase in emissions as a result of this change.

VII. COMPLIANCE

District Rule 2520, Section 6.0 describes the source's ability to make changes including significant permit modification. This modification does not meet the minor permit modification criteria pursuant to Section 3.20 described as follows.

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include;
 - a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
 - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of Section 11.3 by including;

1. The identification of the source, the name and address of the permit holder, the activities and emissions change involved in the permit action;
2. The name and address of the District, the name and telephone number of District staff to contact for additional information;
3. The availability, upon request, of a statement that sets forth the legal and factual basis for the proposed permit conditions;
4. The location where the public may inspect the complete application, the District analysis, the proposed permit, and all relevant supporting materials;
5. A statement that the public may submit written comments regarding the proposed decision within at least 30 days from the date of publication and a brief description of commenting procedures, and
6. A statement that members of the public may request the APCO or his designee to preside over a public hearing for the purpose of receiving oral public comment, if a hearing has not already been scheduled. The APCO shall provide notice of any public hearing scheduled to address the proposed decision at least 30 days prior to such hearing;

ATTACHMENTS

- A. Proposed Modified Title V Operating Permit No.'s C-4261-38-5, '-39-6, '-40-6, '-41-4, '-42-4, and '-43-4.
- B. Previous Title V Operating Permit No.'s C-4261-38-4, '-39-5, '-40-5, '-41-3, '-42-3, and '-43-3.
- C. Application

ATTACHMENT A

Proposed Modified Title V Operating Permit
No.'s

C-4261-38-5, '-39-6, '-40-6, '-41-4, '-42-4,
and '-43-4

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-38-4

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

ONE 70,800 GALLON LIQUEFACTION TANK SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-41, '-42 AND '-43)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the liquefaction tank shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the distillation process; consisting of one de-gas vessel, one beer stripper, one side rectifier, one rectifier, and one molecular sieve, shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, liquefaction tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with this liquefaction tank shall not exceed 0.6 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
19. The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64] Federally Enforceable Through Title V Permit
20. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
23. The owner or operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64] Federally Enforceable Through Title V Permit
24. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit
25. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-39-5

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

FERMENTATION PROCESS CONSISTING OF FOUR IDENTICAL 420,000 GALLON FERMENTATION TANKS ALL SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO2") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '40. RTO ALSO SHARED WITH C-4261-49)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the fermentation tanks shall be vented through the "fermentation" (aka "CO2") scrubber and then through the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from each fermentation tank served by the "fermentation" (aka "CO2") scrubber vented to the RTO shall not exceed 0.08365 lb/1,000 gal-ethanol produced at the facility. Compliance with this VOC emission limit shall be determined by summing the measured VOC emission rates (as lb-VOC/1,000 gal-ethanol produced) at the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the entire fermentation process served by the "fermentation" (aka "CO2") scrubber vented to the RTO shall not exceed 0.08365 lb-VOC/1,000 gal-ethanol produced at the facility. Compliance with this VOC emission limit shall be determined by summing the measured VOC emission rates (as lb-VOC/1,000 gal-ethanol produced) at the RTO and the catalytic oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Controlled VOC emissions rate from the exhaust of the RTO while serving the yeast propagation tank, fermentation process, beerwell process tank and denatured ethanol loading rack shall not exceed 0.171 lb/1,000 gal-processed. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions from equipment leaks associated with the fermentation process shall not exceed 3.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Tanks shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 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.

11. 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 4623] Federally Enforceable Through Title V Permit
12. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
13. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
18. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
19. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
20. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [40 CFR 64] 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. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The RTO shall be fired only on PUC-regulated natural gas. [40 CFR 64] Federally Enforceable Through Title V Permit
23. The RTO chamber temperature shall be maintained at a minimum temperature of 1,400 F before incinerating the vapors. [40 CFR 64] 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. [40 CFR 64] Federally Enforceable Through Title V Permit
25. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. The owner of operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64] Federally Enforceable Through Title V Permit
27. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit
28. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-40-5

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

ONE 550,000 GALLON FIXED ROOF BEERWELL PROCESS TANK SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO₂") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '39. RTO ALSO SHARED WITH C-4261-49)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the beerwell process tank shall be vented through the "fermentation" (aka "CO₂") scrubber and then through the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the beerwell process tank served by the "fermentation" (aka "CO₂") scrubber vented to the RTO shall not exceed 0.08365 lb/1,000 gal-ethanol produced at the facility. Compliance with this VOC emission limit shall be determined by summing the measured VOC emission rates (as lb-VOC/1,000 gal-ethanol produced) at the RTO and the catalytic oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the RTO while serving the yeast propagation tank, fermentation process, beerwell process tank and denatured ethanol loading rack shall not exceed 0.171 lb/1,000 gal-processed. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with the beerwell process tank shall not exceed 0.6 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 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 permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
19. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [40 CFR 64] Federally Enforceable Through Title V Permit
20. 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. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The RTO shall be fired only on PUC-regulated natural gas. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The RTO chamber temperature shall be maintained at a minimum temperature of 1,400 F before incinerating the vapors. [40 CFR 64] Federally Enforceable Through Title V Permit
23. 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. [40 CFR 64] Federally Enforceable Through Title V Permit
24. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
25. The owner or operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64] Federally Enforceable Through Title V Permit
26. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

27. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-41-3

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

DISTILLATION PROCESS CONSISTING OF ONE DE-GAS VESSEL, ONE BEER STRIPPER, ONE SIDE STRIPPER, ONE RECTIFIER, AND DUAL VESSEL MOLECULAR SIEVE, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-42 AND '-43)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the de-gas vessel, beer stripper, side rectifier, rectifier, and molecular sieve shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the distillation process - consisting of one de-gas vessel, one beer stripper, one side rectifier, one rectifier, and one molecular sieve - shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with the distillation process shall not exceed 3.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
11. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] 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. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
13. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
15. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
16. The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64] Federally Enforceable Through Title V Permit
17. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
19. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
20. The owner or operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64] Federally Enforceable Through Title V Permit
21. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit
22. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit
23. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-42-3

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

ONE 98,000 GALLON PROCESS CONDENSATE TANK COLLECTING WATER FROM THE FERMENTATION AND THE DISTILLATION SCRUBBERS SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-43)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the process condensate tank shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the process condensate tank shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with this process condensate tank shall not exceed 0.2 lb/day. [District Rule] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
19. The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64] Federally Enforceable Through Title V Permit
20. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
23. The owner or operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64] Federally Enforceable Through Title V Permit
24. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit
25. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

26. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-43-3

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

WET CAKE PROCESS CONSISTING OF ONE 135,600 GALLON WHOLE STILLAGE TANK, ONE CENTRIFUGE SYSTEM, ONE 100,000 GALLON THIN STILLAGE TANK, ONE EVAPORATOR, AND ONE 89,000 GALLON SYRUP TANK, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-42) AND MECHANICAL CONVEYORS

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the wet cake process shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber serving the wet cake process, consisting of one whole stillage tank, one centrifuge, one thin stillage tank, one evaporator and one syrup tank, shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with the wet cake process shall not exceed 2.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 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 permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
19. The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64] Federally Enforceable Through Title V Permit
20. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
23. The owner of operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64] Federally Enforceable Through Title V Permit
24. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

25. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit
26. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permit No.'s
C-4261-38-4, '-39-5, '-40-5, '-41-3, '-42-3,
and '-43-3

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-38-5

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

MODIFICATION OF ONE 70,800 GALLON LIQUEFACTION TANK SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-41, '-42 AND '-43); REMOVE CONDITION #23

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the liquefaction tank shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the distillation process; consisting of one de-gas vessel, one beer stripper, one side rectifier, one rectifier, and one molecular sieve, shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, liquefaction tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with this liquefaction tank shall not exceed 0.6 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
19. The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64] Federally Enforceable Through Title V Permit
20. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
23. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit
24. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit
25. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-39-6

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

MODIFICATION OF FERMENTATION PROCESS CONSISTING OF FOUR IDENTICAL 420,000 GALLON FERMENTATION TANKS ALL SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO2") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '40. RTO ALSO SHARED WITH C-4261-49); REMOVE CONDITION #26

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the fermentation tanks shall be vented through the "fermentation" (aka "CO2") scrubber and then through the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from each fermentation tank served by the "fermentation" (aka "CO2") scrubber vented to the RTO shall not exceed 0.08365 lb/1,000 gal-ethanol produced at the facility. Compliance with this VOC emission limit shall be determined by summing the measured VOC emission rates (as lb-VOC/1,000 gal-ethanol produced) at the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the entire fermentation process served by the "fermentation" (aka "CO2") scrubber vented to the RTO shall not exceed 0.08365 lb-VOC/1,000 gal-ethanol produced at the facility. Compliance with this VOC emission limit shall be determined by summing the measured VOC emission rates (as lb-VOC/1,000 gal-ethanol produced) at the RTO and the catalytic oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Controlled VOC emissions rate from the exhaust of the RTO while serving the yeast propagation tank, fermentation process, beerwell process tank and denatured ethanol loading rack shall not exceed 0.171 lb/1,000 gal-processed. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions from equipment leaks associated with the fermentation process shall not exceed 3.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Tanks shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 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.

11. 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 4623] Federally Enforceable Through Title V Permit
12. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
13. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
18. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
19. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
20. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [40 CFR 64] 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. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The RTO shall be fired only on PUC-regulated natural gas. [40 CFR 64] Federally Enforceable Through Title V Permit
23. The RTO chamber temperature shall be maintained at a minimum temperature of 1,400 F before incinerating the vapors. [40 CFR 64] 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. [40 CFR 64] Federally Enforceable Through Title V Permit
25. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
26. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

27. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-40-6

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

MODIFICATION OF ONE 550,000 GALLON FIXED ROOF BEERWELL PROCESS TANK SERVED BY AN APACHE STAINLESS "FERMENTATION" (AKA "CO2") WET SCRUBBER WHICH VENTS TO A 2.5 MMBTU/HR REGENERATIVE THERMAL OXIDIZER (RTO) (SCRUBBER AND RTO SHARED WITH PERMITS C-4261-37 AND '39. RTO ALSO SHARED WITH C-4261-49): REMOVE CONDITION #25

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the beerwell process tank shall be vented through the "fermentation" (aka "CO2") scrubber and then through the RTO. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the beerwell process tank served by the "fermentation" (aka "CO2") scrubber vented to the RTO shall not exceed 0.08365 lb/1,000 gal-ethanol produced at the facility. Compliance with this VOC emission limit shall be determined by summing the measured VOC emission rates (as lb-VOC/1,000 gal-ethanol produced) at the RTO and the catalytic oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the RTO while serving the yeast propagation tank, fermentation process, beerwell process tank and denatured ethanol loading rack shall not exceed 0.171 lb/1,000 gal-processed. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with the beerwell process tank shall not exceed 0.6 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 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 permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
19. The RTO shall be permanently equipped with a temperature measurement device that detects the combustion chamber temperature. [40 CFR 64] Federally Enforceable Through Title V Permit
20. 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. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The RTO shall be fired only on PUC-regulated natural gas. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The RTO chamber temperature shall be maintained at a minimum temperature of 1,400 F before incinerating the vapors. [40 CFR 64] Federally Enforceable Through Title V Permit
23. 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. [40 CFR 64] Federally Enforceable Through Title V Permit
24. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
25. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit
26. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-41-4

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

MODIFICATION OF DISTILLATION PROCESS CONSISTING OF ONE DE-GAS VESSEL, ONE BEER STRIPPER, ONE SIDE STRIPPER, ONE RECTIFIER, AND DUAL VESSEL MOLECULAR SIEVE, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-42 AND '-43); REMOVE CONDITION #20

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the de-gas vessel, beer stripper, side rectifier, rectifier, and molecular sieve shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the distillation process - consisting of one de-gas vessel, one beer stripper, one side rectifier, one rectifier, and one molecular sieve - shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with the distillation process shall not exceed 3.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
10. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
11. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] 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. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
13. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
15. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
16. The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64] Federally Enforceable Through Title V Permit
17. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
18. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
19. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
20. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit
21. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit
22. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-42-4

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

MODIFICATION OF ONE 98,000 GALLON PROCESS CONDENSATE TANK COLLECTING WATER FROM THE FERMENTATION AND THE DISTILLATION SCRUBBERS SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-43); REMOVE CONDITION #23

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the process condensate tank shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the process condensate tank shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with this process condensate tank shall not exceed 0.2 lb/day. [District Rule] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
17. 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 C-4261-0. [District Rule 4455] Federally Enforceable Through Title V Permit
18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
19. The vent gas scrubber shall be equipped with a water flow meter, in operation at all times. [40 CFR 64] Federally Enforceable Through Title V Permit
20. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
23. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit
24. If the District or EPA determines that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64. [40 CFR 64] Federally Enforceable Through Title V Permit
25. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-4261-43-4

EXPIRATION DATE: 11/30/2017

EQUIPMENT DESCRIPTION:

MODIFICATION OF WET CAKE PROCESS CONSISTING OF ONE 135,600 GALLON WHOLE STILLAGE TANK, ONE CENTRIFUGE SYSTEM, ONE 100,000 GALLON THIN STILLAGE TANK, ONE EVAPORATOR, AND ONE 89,000 GALLON SYRUP TANK, ALL SERVED BY AN APACHE STAINLESS "DISTILLATION" (AKA "PROCESS") WET SCRUBBER (SCRUBBER SHARED WITH PERMITS C-4261-36, '-38, '-41 AND '-42) AND MECHANICAL CONVEYORS: REMOVE CONDITION #23

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The maximum amount of ethanol produced at this facility shall not exceed either of the following limits: 125,000 gallon/day or 40,000,000 gallon/year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All vapors from the wet cake process shall be vented through the "distillation" (aka "process") scrubber. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber serving the wet cake process, consisting of one whole stillage tank, one centrifuge, one thin stillage tank, one evaporator and one syrup tank, shall not exceed 0.1161 lb-VOC/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Controlled VOC emissions rate from the exhaust of the "distillation" (aka "process") scrubber while serving the slurry tank, distillation process, process condensate tank and wet cake process shall not exceed 0.1161 lb/1,000 gal-ethanol produced at the facility. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from equipment leaks associated with the wet cake process shall not exceed 2.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emissions shall be calculated using the EPA "1995 Protocol for equipment Leak Emissions Estimates" (EPA-453/R-95-017), Table 2-1, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. [District Rule 4623] Federally Enforceable Through Title V Permit
10. 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 4623] Federally Enforceable Through Title V Permit
11. Except as otherwise provided in this permit, all piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 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 permittee shall maintain daily and annual records, in gallons, of the quantity of ethanol produced at this facility. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
13. Valves, threaded connections, and flanges shall not leak VOCs in excess of 100 ppmv above background when measured in accordance with EPA Method 21, provided the total number of leaking tagged components of any component type does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
14. Pressure relief valves (PRVs) shall not leak VOC's in excess of 100 ppmv above background when measured in the plane at the centroid of any atmospheric vent with an instrument calibrated with methane, provided the total number of leaking PRVs does not exceed 0.5 percent of the total number of components of that type inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
15. Process drains shall not leak VOC's in excess of 100 ppmv above background when measured at a distance of one (1) centimeter of the potential source with an instrument calibrated with methane, provided the total number of leaking process drains does not exceed 0.5 percent of the total number of components inspected. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
16. Pumps or compressors which handle a VOC or any associated seal fluid system which circulates a fluid through or between seals on process pumps or compressors shall not leak in excess of 500 ppmv above background when measured in accordance with EPA Method 21. [District Rules 2201 and 4455, 5.1.4] Federally Enforceable Through Title V Permit
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18. This operation shall comply with the requirements of 40 CFR 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, as specified on facility wide permit C-4261-0. [40 CFR 60.480 and 60.481] Federally Enforceable Through Title V Permit
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20. The water flow rate through the vent gas scrubber shall not be less than 25 gal/minute. [40 CFR 64] Federally Enforceable Through Title V Permit
21. The permittee shall monitor and record the water flow rate through the vent gas scrubber at least once every day. [40 CFR 64] Federally Enforceable Through Title V Permit
22. The owner or operator shall submit excess emission reports for any excess emissions that occurred during the reporting period. [40 CFR 64] Federally Enforceable Through Title V Permit
23. If the water flow rate through the fermentation scrubber is less than 25 gal/minute, the permittee shall correct the water flow rate to exceed 25 gal/minute, as soon as possible, but no longer than 1 hour of operation after detection. If the water flow rate through the fermentation scrubber continues to be less than 25 gal/minute after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. [40 CFR 64] Federally Enforceable Through Title V Permit
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25. All records shall be retained on site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

ATTACHMENT C

Application

San Joaquin Valley Air Pollution Control District

www.valleyair.org

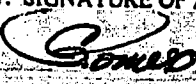
RECEIVED

AUG 13 2014

Permits Services
SJVAPCD

Permit Application For:

☐ ADMINISTRATIVE AMENDMENT ☐ MINOR MODIFICATION ☒ SIGNIFICANT MODIFICATION

1. PERMIT TO BE ISSUED TO: Pacific Ethanol Madera LLC	
2. MAILING ADDRESS:	
STREET/P.O. BOX: <u>400 Capital Mall, Suite 2060</u>	
CITY: <u>Sacramento</u>	STATE: <u>California</u> 9-DIGIT ZIP CODE: <u>95814</u>
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:	INSTALLATION DATE: 2006
STREET: <u>3142 Avenue 12</u> CITY: <u>Madera</u>	
4. GENERAL NATURE OF BUSINESS: Manufacture of Denatured Ethanol and various by products.	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary)	
Permit #	Condition #
N-4261-38-4	23
N-4261-39-5	26
N-4261-40-5	25
N-4261-41-3	20
N-4261-42-3	23
N-4261-43-3	23
The above permit conditions requiring a quarterly opacity report need to be removed as the above permits refer to a number of tanks in closed systems that vent to scrubbers.	
6. TYPE OR PRINT NAME OF APPLICANT: Carol Romero	TITLE OF APPLICANT: EHS Mgr.
7. SIGNATURE OF APPLICANT: 	DATE: 7/30/2014 PHONE: 209-235-0370 FAX: 209-235-0376 EMAIL: <u>caromero@pacificethanol.net</u>

For APCD Use Only:

DATE STAMP	FILING FEE RECEIVED: \$ <u>19.00</u>	CHECK#: <u>3029410</u>
	DATE PAID:	
	PROJECT NO: <u>C-1142381</u>	FACILITY ID: <u>C-4261</u>

Central Regional Office o 1990 E. Gettysburg Avenue o Fresno, CA 93726-0244 o (559) 230-5900 o FAX (559) 230-6061

Revised: January, 2009

TVFORM-008

San Joaquin Valley
Unified Air Pollution Control District

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

- [X] SIGNIFICANT PERMIT MODIFICATION [] ADMINISTRATIVE
[] MINOR PERMIT MODIFICATION [] AMENDMENT

COMPANY NAME: Pacific Ethanol Madera LLC	FACILITY ID: C- 4261
1. Type of Organization: [X] Corporation [] Sole Ownership [] Government [] Partnership [] Utility	
2. Owner's Name: Pacific Ethanol Madera LLC	
3. Agent to the Owner: Mike Kandris	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

- ☒ Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- ☒ Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- ☒ Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- ☒ Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Michael Kandris

Signature of Responsible Official

July 30, 2014

Date

Mike Kandris

Name of Responsible Official (please print)

COO

Title of Responsible Official (please print)



Pacific Ethanol, Inc.

Certified Mail 7006 2150 0003 3281 9708

July 30, 2014

Dustin Brown
Permit Engineer
San Joaquin Valley Unified APCD
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244

Subject: Minor Modification Application
Reference: Facility ID C-4261

Dear Mr. Brown:

Please find the enclosed Minor Modification Application for the tanks and processes associated with Permit to Operate C-4261-38-4, C-4261-39-5, C-4261-40-5, C-4261-41-3, C-4261-42-3 and C-4261-43-3. Pacific Ethanol Madera LLC is requesting that the conditions (see item 5 of the application) that require a quarterly opacity report be removed from the permits.

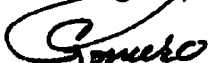
"The owner of operator may submit electronic quarterly reports for opacity in lieu of submitting the written reports. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indication whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [40 CFR 64] Federally Enforceable Through Title V Permit"

209-235-0370
3028 NAVY DRIVE
STOCKTON, CA 95206
www.pacificethanol.net

These tanks and processes are vented to a closed system that sends the collected vapors to one of two scrubbers. There are not stacks on the tanks and processes, and no continuous opacity meter has been required by permit. Pacific Ethanol was informed by the District that these conditions were put in the Permits to Operate by mistake and advised to file a Minor Modification Application to remove these conditions.

Please email me at cromero@pacificethanol.net or call me at 209-235-0370 ext. 6009 if you have any questions or require further information.

Best regards,



Carol Romero
EHS Manager

209-235-0370
3028 NAVY DRIVE
STOCKTON, CA 95206
www.pacificethanol.net