



FEB 13 2015

Carol Romero
Pacific Ethanol Stockton LLC
3028 Navy Drive
Stockton, CA 95206

**Re: Notice of Final Action - Minor Title V Permit Modification
District Facility # N-7365
Project # N-1143325**

Dear Ms. Romero:

The Air Pollution Control Officer has modified the Title V permit for Pacific Ethanol Stockton LLC by incorporating N-1143325. This permit is for a pilot anaerobic digester system. The system will be installed to collect data to design a full scale anaerobic digester system.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on October 24, 2014. No comments were received following the District's preliminary decision on this project.

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

Sincerely,

Arnaud Marjollet
Director of Permit Services

AM:JK

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-7365-34-1

EXPIRATION DATE: 09/30/2017

EQUIPMENT DESCRIPTION:

PILOT SCALE ANAEROBIC DIGESTER SYSTEM

PERMIT UNIT REQUIREMENTS

1. The pilot scale anaerobic digester system includes two mixing tanks, a digester tank, a gas bag, carbon canisters and associated pipes, valves, flanges, connectors and pumps. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The biogas shall be disposed in the 2.4 MMBtu/hr A.H. Lundberg Associates Inc, regenerative thermal oxidizer shared with permit units N-7365-4, '-5, '-6, '-7, '-8, '-9, -10 and '-11. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of biogas combusted in the RTO shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
5. No more than 2,112 cubic feet of biogas shall be incinerated in the RTO during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Hydrogen sulfide (H₂S) concentration in the biogas prior to the combustion shall not exceed 600 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Emissions rates from the combustion of natural gas and biogas in the RTO burner shall not exceed any of the following limits: 0.05 lb-NO_x/MMBtu; 0.084 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM₁₀/MMBtu; or 0.007 lb-SO_x/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
8. At least once every 120 days thereafter, the hydrogen sulfide concentration of the biogas shall be determined by an independent, certified laboratory using one of the following test methods: EPA Method 11, EPA Method 15, ASTM Method D1072, D3031, D4084, D3246, or D5504. Once three consecutive 120-day laboratory tests show compliance with the permitted hydrogen sulfide concentration limit, the laboratory testing frequency may be reduced to annually. If a subsequent annual laboratory test shows a violation of the permitted hydrogen sulfide concentration limit then 120-day laboratory testing shall resume and continue until three consecutive 120-day laboratory tests show compliance. Once compliance is shown on three consecutive 120-day laboratory tests, the laboratory testing frequency may return to annually. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
9. At least once every other week, the facility shall test the biogas to demonstrate compliance with the permitted hydrogen sulfide concentration limit using Draeger tubes or a District approved equivalent method. Once 12 consecutive biweekly tests show compliance, the testing frequency may be reduced to monthly. If a subsequent test shows a violation of the permitted hydrogen sulfide concentration limit then biweekly testing shall resume and continue until 12 consecutive tests show compliance. Once compliance is shown on 12 consecutive biweekly tests, the testing frequency may return to monthly. It is not necessary for the facility to perform Draeger tube or District approved equivalent method testing during the week in which either the 120-day or annual laboratory testing is performed. [District Rules 1081 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.

10. Biogas sampling shall be conducted using the methods and procedures approved by the District. The District shall be notified each time the biogas sampling frequency changes. [District Rule 1081] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of: (1) the name of the sampler, and the date and time of biogas sampling for H₂S, (2) the name of the tester, and the date and time of biogas testing for H₂S, (3) test results showing the biogas concentration (in ppmv) of H₂S. [District Rule 1081] Federally Enforceable Through Title V Permit
12. The anaerobic digester system and its associated piping shall be inspected for leaks at least monthly. Any leak detected on the basis of sight, smell, or sound, shall be recorded and a corrective action shall be taken to eliminate the leak. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Records of leak inspections shall contain at least an identification of a person performing an inspection, date and time of the inspection, leak location, and corrective action taken to eliminate leaks. The records shall be maintained, kept, and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All records shall be retained for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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