



**SEP 14 2011**

Phil Castro  
E&J Gallo Winery  
5610 E. Olive Ave  
Fresno, CA 93727

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # C-447  
Project # C-1102185**

Dear Mr. Castro:

The Air Pollution Control Officer has modified the Title V permit for E&J Gallo Winery by incorporating Authorities to Construct C-447-1-10, '-2-16, '-3-8, '-3-9, and '-4-8. Authority to Construct C-447-3-8 authorized the use of biogas in the natural gas-fired boiler. Authorities to Construct C-447-1-10, '-2-16, '-3-9, and '-4-8 limit each of four boilers to 7 ppmvd NOx for District Rule 4320 compliance.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on May 23, 2011. 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. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:JH

Enclosures

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

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**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



**SEP 14 2011**

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

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # C-447  
Project # C-1102185**

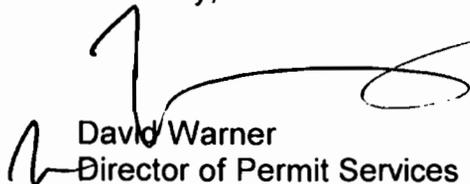
Dear Mr. Rios:

The Air Pollution Control Officer has modified the Title V permit for E&J Gallo Winery by incorporating Authorities to Construct C-447-1-10, '-2-16, '-3-8, '-3-9, and '-4-8. Authority to Construct C-447-3-8 authorized the use of biogas in the natural gas-fired boiler. Authorities to Construct C-447-1-10, '-2-16, '-3-9, and '-4-8 limit each of four boilers to 7 ppmvd NOx for District Rule 4320 compliance.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on May 23, 2011. 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. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

  
David Warner  
Director of Permit Services

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-447-1-11

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

62.0 MMBTU/HR B & W BIOGAS/NATURAL GAS-FIRED BOILER EQUIPPED WITH A TODD LOW-NOX BURNER, FLUE GAS RECIRCULATION, O<sub>2</sub> AND CO TRIM CONTROLLERS, AND A CRI COMPANY SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM MODEL SHELL DNOX LFR

## PERMIT UNIT REQUIREMENTS

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1. All equipment shall be constructed, maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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 NSR Rule] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
4. The unit shall only be fired on PUC-regulated natural gas and/or on scrubbed biogas from C-447-226. [District NSR Rule and Rules 4301 and 4320, and Fresno County Rule 406] Federally Enforceable Through Title V Permit
5. The unit shall not burn more than 1,296,000 scf of biogas fuel in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. The H<sub>2</sub>S content of the scrubbed biogas fuel shall not exceed 50 ppmv. [District NSR Rule and Rule 4320] Federally Enforceable Through Title V Permit
7. Except during start-up and shutdown, emissions from this unit shall not exceed any of the following limits: 7 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.008 lb-NO<sub>x</sub>/MMBtu; 0.0022 lb-PM<sub>10</sub>/MMBtu; 100 ppmvd CO @ 3% O<sub>2</sub> (equivalent to 0.074 lb-CO/MMBtu); or 0.0025 lb-VOC/MMBtu. [District NSR Rule and Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. During start-up and shutdown, emissions from this unit shall not exceed either of the following limits: 0.68 lb-NO<sub>x</sub>/hr, or 4.59 lb-CO/hr. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. The total duration of start-up time shall not exceed 9.0 hours per day. [District NSR Rule and Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. The total duration of startup time shall not exceed 6.0 hours per occurrence. [District NSR Rule and Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The total duration of shutdown time shall not exceed 6.0 hours per day. [District NSR Rule and Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. The total duration of shutdown time shall not exceed 3.0 hours per occurrence. [District NSR Rule and Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The permittee shall maintain daily records of start-up and shutdown durations and number of occurrences of each. [District NSR Rule and Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The ammonia (NH<sub>3</sub>) emissions shall not exceed 10 ppmvd @ 3% O<sub>2</sub> over a 15 minute averaging period. [District Rule 4102]
15. Ammonia emission readings shall be conducted at the time the NO<sub>x</sub>, CO, and O<sub>2</sub> readings are taken. The readings shall be converted to ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
16. Source testing to measure natural gas/biogas combustion NO<sub>x</sub>, CO, and NH<sub>3</sub> emissions from this unit shall be conducted at least once every twelve months. After demonstrating compliance on two consecutive annual source tests when unit is fired on natural gas/biogas, the unit shall be tested not less than once every 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve months. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Nitrogen oxide (NO<sub>x</sub>) emission concentrations in ppmv referenced at dry stack emissions shall be corrected to 3% O<sub>2</sub> and lb/MMBtu rates shall be calculated as lb NO<sub>2</sub>/MMBtu of heat input (hhv). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
18. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. Source testing for ammonia slip shall be conducted utilizing BAAQMD Method ST-1B. [District Rule 4102]
24. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
25. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
26. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
27. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within five days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. The permittee shall monitor and record the stack concentration of ammonia (NH<sub>3</sub>) at least once during each month in which a source test is not performed. NH<sub>3</sub> monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within one day of restarting the unit unless monitoring has been performed within the last month. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

29. If the NO<sub>x</sub>, CO or NH<sub>3</sub> concentrations, as measured by the portable analyzer or the District approved ammonia monitoring equipment, exceed the permitted levels, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than one hour of operation after detection. If the portable analyzer or the ammonia monitoring equipment continue to show emission limit violations after one hour of operation following detection, the permittee shall notify the District within the following one hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
30. All NO<sub>x</sub>, CO, O<sub>2</sub> and NH<sub>3</sub> emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The NO<sub>x</sub>, CO and O<sub>2</sub> analyzer as well as the NH<sub>3</sub> emission monitoring equipment shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
31. NH<sub>3</sub> emission readings shall be conducted at the time the NO<sub>x</sub>, CO and O<sub>2</sub> readings are taken. The readings shall be converted to ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
32. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, NH<sub>3</sub>, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent by volume and the measured NO<sub>x</sub>, CO, and NH<sub>3</sub> concentrations corrected to 3% O<sub>2</sub>, (3) make and model of the portable analyzer, (4) portable analyzer calibration records, (5) the method of determining the NH<sub>3</sub> emission concentration, and (6) a description of any corrective action taken to maintain the emissions at or below the acceptable levels. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
33. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
34. Permittee shall determine sulfur content of combusted natural gas annually or shall demonstrate that the combusted natural gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
35. The permittee shall monitor the biogas H<sub>2</sub>S concentration at the outlet of the biogas scrubber (Permit to Operate C-447-226) on a weekly basis. If the biogas H<sub>2</sub>S concentration does not exceed 50 ppmv for four consecutive weeks, monitoring may be conducted on a monthly basis. If the H<sub>2</sub>S concentration at the outlet exceeds 50 ppmv, weekly monitoring shall resume. [District Rule 4320] Federally Enforceable Through Title V Permit
36. Records of the daily natural gas and biogas consumption shall be maintained on the premises. [District NSR Rule and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with subsumed requirements of SJVUAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of County Rule 406 (Fresno) and SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201, 4301, and 4305. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

41. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 1081. A permit shield is granted from this requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source because it is not used to produce electricity for sale and was constructed prior to June 9, 1989 without modifications or reconstruction. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-447-2-17

**EXPIRATION DATE:** 06/30/2007

**EQUIPMENT DESCRIPTION:**

142.0 MMBTU/HR NEBRASKA MODEL 84 NATURAL GAS-FIRED BOILER WITH A TODD LOW NOX BURNER, FLUE GAS RECIRCULATION (FGR) SYSTEM, CRI COMPANY SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AND AN ABB MODEL AO2000 CEMS

## PERMIT UNIT REQUIREMENTS

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1. To ensure the validity of the ERCs issued by Project # 920370, NOx emissions shall not exceed the 0.036 pound per million Btu limitation based on a 24-hour rolling average of the NOx concentration calculated from CEMS. All performance testing shall be done in compliance with District Rules. [District NSR Rule and Rule 2301 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
2. 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 NSR Rule] Federally Enforceable Through Title V Permit
3. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
4. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
5. The unit shall only be fired on PUC-regulated natural gas. [District NSR Rule and District Rules 4301, 4306, and 4320, Fresno County Rule 406] Federally Enforceable Through Title V Permit
6. Except during start-up and shutdown, emissions from this unit shall not exceed any of the following limits: 7 ppmvd NOx @ 3% O2 or 0.008 lb-NOx/MMBtu; 0.00285 lb-SOx/MMBtu; 0.0024 lb-PM10/MMBtu; 200 ppmvd CO @ 3% O2 (equivalent to 0.148 lb-CO/MMBtu); or 0.0027 lb-VOC/MMBtu. [District NSR Rule and Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
7. During start-up and shutdown, emissions from the exhaust of the SCR system serving this boiler shall not exceed either of the following limits: 1.56 lb-NOx/hr, or 21.0 lb-CO/hr. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. NOx emissions shall not exceed 0.10 lb/MMBtu including periods of startup, shutdown, or malfunction. Compliance with the 0.10 pound per million Btu limitation shall be based on a 30-day rolling average of the NOx concentration calculated from CEMS. All performance testing shall be done in compliance with 40 CFR 60.8. [40 CFR 60.44b (c), (e), (h), and (i) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
9. The total duration of start-up time shall not exceed 9.0 hours per day. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. The total duration of startup time shall not exceed 6.0 hours per occurrence. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The total duration of shutdown time shall not exceed 6.0 hours per day. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

12. The total duration of shutdown time shall not exceed 3.0 hours per occurrence. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The permittee shall record the daily startup and shutdown duration times of the boiler. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. The ammonia (NH<sub>3</sub>) emissions shall not exceed 10 ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
15. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 2520, 9.3.2, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. Source testing to measure natural gas-combustion NO<sub>x</sub> and CO emissions, and ammonia (NH<sub>3</sub>) emissions from this unit shall be conducted at least once every twelve months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve months. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. The facility shall source test VOC and PM<sub>10</sub> emissions from this unit upon request by the District. Emissions shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty minute test runs unless other averaging times are approved in advance. [District Rules 1081 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The source plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rules 1081 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. Source testing for ammonia slip shall be conducted utilizing BAAQMD method ST-1B. [District NSR Rule] Federally Enforceable Through Title V Permit
25. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
26. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rules 1081 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. A Continuous Emissions Monitoring System shall be in place and operating whenever the facility is operating. NO<sub>x</sub> emissions in ppmv (as NO<sub>2</sub> corrected to 3% O<sub>2</sub>), CO emissions in ppmv (corrected to 3% O<sub>2</sub>) and O<sub>2</sub> concentrations must be recorded continuously. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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28. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
29. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
30. The nitrogen oxide emission rates measured by the CEMS shall be expressed in lb/million Btu or in ng/J. The 1-hour average emission rates shall be calculated using the data points required under Section 60.13(b). The records shall also include a daily emission rate consisting of an averaged 24 hour rolling emission rate. [District NSR Rule; 40 CFR 60.48b (d) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
31. The procedures under Section 60.13 shall be followed for evaluation, and operation of the CEMS. [40 CFR 60.48b (e) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. Operation and calibration of the Continuous Emissions Monitoring System shall be in accordance with the requirements of 40 CFR, Part 60, Appendix B. [District Rules 1080 and 4001 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
33. The owner/operator shall on a perform a relative accuracy test (RATA) as specified by 40 CFR Part 60, Appendix F, and as specified by 40 CFR Part 60, Appendix B, Spec. 2, Section 7 annually. [40 CFR Part 60.13(c), District Rule 1080 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
34. In cases of CEMS breakdown, malfunction, repairs, calibration checks, and adjustments, emission data shall be obtained as described in paragraph f of 40 CFR 60.48b. [40 CFR 60.48b (f) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
35. Daily summaries of continuous monitoring records for each calendar quarter shall be submitted to the District within 30 days of the end of the calendar quarter. [40 CFR 60.49b (i) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
36. The following records shall be kept for each steam generating unit operating day: (1) Calendar date, (2) Average hourly NOx emission rate, (3) Average 30-day emission rate for preceding 30 operating days, (4) Identification of daily NOx limit exceedances including reason for exceedance and the corrective actions taken, (5) Identification of daily CEMS interruptions including reason for interruption and the corrective actions taken, (6) Identification of data exclusions and the reasons for the exclusion, (7) Identification of F factor used for calculations, (8) Identification of times that the pollutant concentration exceeded the full span of the CEMS, (9) Description of modifications to the CEMS, (10) Results of daily CEMS drift tests and other tests required under Appendix B. [40 CFR 60.49b (g) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
37. The owner shall submit quarterly excess emission reports for any calendar quarter during which there are excess emissions. The owner shall also submit semiannual reports stating that there have been no excess emissions during periods when there have been no excess emissions. [40 CFR 60.49b (h)] Federally Enforceable Through Title V Permit
38. The permittee shall monitor and record the stack concentration of ammonia (NH<sub>3</sub>) at least once during each month in which a source test is not performed. NH<sub>3</sub> monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within one day of restarting the unit unless monitoring has been performed within the last month. [District Rule 4102]
39. Ammonia (NH<sub>3</sub>) emission readings shall be converted to ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
40. The permittee shall maintain records of: (1) the date and time of ammonia (NH<sub>3</sub>) measurements, (2) the O<sub>2</sub> concentration in percent by volume and the measured NH<sub>3</sub> concentrations corrected to 3% O<sub>2</sub>, (3) the method of determining the NH<sub>3</sub> emission concentration, and (4) a description of any corrective action taken to maintain the emissions at or below the acceptable levels. [District Rule 4102]

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

41. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
42. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.3.2, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
43. The owner shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor for each calendar quarter. [40 CFR 60.49b (d)] Federally Enforceable Through Title V Permit
44. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
45. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
46. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed Fresno County APCD Rules: 108.1, 404, 406, and 408. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
47. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: Rule 1081, 4201, 4202, 4301, 4305, and 40 CFR 60 subpart Db. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-447-3-11

**EXPIRATION DATE:** 06/30/2007

**EQUIPMENT DESCRIPTION:**

75.0 MMBTU/HR BIGELOW BIOGAS/NATURAL GAS-FIRED BOILER, S/N 12722, WITH A TODD MODEL V.485.FGX LOW NOX BURNER, FLUE GAS RECIRCULATION SYSTEM, O2 TRIM CONTROLLER, AND CO TRIM CONTROLLER SERVED BY A CRI COMPANY MODEL SHELL DNOX LFR SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM

## PERMIT UNIT REQUIREMENTS

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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. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-regulated natural gas and/or on scrubbed biogas from C-447-226. [District Rules 2201, and 4301, 5.2.1 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
4. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rule 108.1 (Fresno)] Federally Enforceable Through Title V Permit
5. The combined biogas and natural gas fuel usage for this unit shall not exceed 1,353,000 standard cubic feet during any given day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. H<sub>2</sub>S content of the scrubbed biogas fuel shall not exceed 50 ppmv. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
7. Except during start-up and shutdown, emissions from this unit shall not exceed any of the following limits: 7 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.008 lb-NO<sub>x</sub>/MMBtu; 200 ppmvd CO @ 3% O<sub>2</sub> or 0.148 lb-CO/MMBtu; 0.0027 lb-VOC/MMBtu; or 0.0024 lb-PM<sub>10</sub>/MMBtu. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
8. During start-up and shutdown, emissions from this unit shall not exceed any of the following limits: 0.83 lb-NO<sub>x</sub>/hr; 11.1 lb-CO/hr; 0.20 lb-VOC/hr; 0.18 lb-PM<sub>10</sub>/hr; or 0.45 lb-SO<sub>x</sub>/hr. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. The total duration of start-up time shall not exceed 9.0 hours per day. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. The total duration of start-up time shall not exceed 6.0 hours per occurrence. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The total duration of shutdown time shall not exceed 6.0 hours per day. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. The total duration of shutdown time shall not exceed 3.0 hours per occurrence. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The permittee shall maintain daily records of start-up and shutdown durations and number of occurrences of each. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up and shutdown. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. The ammonia (NH<sub>3</sub>) emissions from the exhaust of the SCR system serving this boiler shall not exceed 10 ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
16. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Source testing to measure natural gas/biogas combustion NO<sub>x</sub>, CO, and NH<sub>3</sub> emissions from this unit shall be conducted at least once every twelve months. After demonstrating compliance on two consecutive annual source tests when unit is fired on natural gas, the unit shall be tested not less than once every 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve months. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. Source testing for ammonia slip shall be conducted utilizing BAAQMD method ST-1B. [District Rules 1081 and 4102] Federally Enforceable Through Title V Permit
24. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
25. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Nitrogen oxide (NO<sub>x</sub>) emission concentrations in ppmv referenced at dry stack emissions shall be corrected to 3% O<sub>2</sub> and lb/MMBtu rates shall be calculated as lb NO<sub>2</sub>/MMBtu of heat input (hhv). [District Rule 4305] Federally Enforceable Through Title V Permit
27. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within five days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

28. The permittee shall monitor and record the stack concentration of ammonia (NH<sub>3</sub>) at least once during each month in which a source test is not performed. NH<sub>3</sub> monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within one day of restarting the unit unless monitoring has been performed within the last month. [District Rule 4102]
29. If the NO<sub>x</sub>, CO or NH<sub>3</sub> concentrations, as measured by the portable analyzer or the District approved ammonia monitoring equipment, exceed the permitted levels, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than one hour of operation after detection. If the portable analyzer or the ammonia monitoring equipment continue to show emission limit violations after one hour of operation following detection, the permittee shall notify the District within the following one hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
30. All NO<sub>x</sub>, CO, O<sub>2</sub> and NH<sub>3</sub> emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The NO<sub>x</sub>, CO and O<sub>2</sub> analyzer as well as the NH<sub>3</sub> emission monitoring equipment shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
31. NH<sub>3</sub> emission readings shall be conducted at the time the NO<sub>x</sub>, CO and O<sub>2</sub> readings are taken. The readings shall be converted to ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
32. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, NH<sub>3</sub>, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent by volume and the measured NO<sub>x</sub>, CO, and NH<sub>3</sub> concentrations corrected to 3% O<sub>2</sub>, (3) make and model of the portable analyzer, (4) portable analyzer calibration records, (5) the method of determining the NH<sub>3</sub> emission concentration, and (6) a description of any corrective action taken to maintain the emissions at or below the acceptable levels. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
33. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [District Rules 2520, 9.3.2, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
35. Permittee shall determine sulfur content of combusted natural gas annually or shall demonstrate that the combusted natural gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
36. The permittee shall monitor the biogas H<sub>2</sub>S concentration at the outlet of the biogas scrubber (Permit to Operate C-447-226) on a weekly basis. If the biogas H<sub>2</sub>S concentration does not exceed 50 ppmv for four consecutive weeks, monitoring may be conducted on a monthly basis. If the H<sub>2</sub>S concentration at the outlet exceeds 50 ppmv, weekly monitoring shall resume. [District Rule 4320] Federally Enforceable Through Title V Permit
37. The permittee shall maintain daily records of the amount of natural gas and biogas consumed by this boiler, in standard cubic feet. [District Rule 2201] Federally Enforceable Through Title V Permit
38. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

39. Compliance with permit conditions in the Title V permit shall be deemed compliance with subsumed requirements of County Rules 408 (Fresno) and Rule 404 (Fresno); and SJVUAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 406 (Fresno); and SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201, 4301, and 4305. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 1081 and County Rule 108.1 (Fresno). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
43. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source because it is not used to produce electricity for sale and was constructed prior to June 9, 1989 without modifications or reconstruction. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-447-4-9

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

75.0 MMBTU/HR BIGELOW NATURAL GAS-FIRED BOILER, S/N 576, WITH A TODD MODEL V.485.FGX LOW NOX BURNER, FLUE GAS RECIRCULATION SYSTEM, O2 TRIM CONTROLLER, AND CO TRIM CONTROLLER SERVED BY A CRI COMPANY MODEL SHELL DNOX LFR SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM

## PERMIT UNIT REQUIREMENTS

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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. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
3. This unit shall only be fired on PUC-regulated natural gas. [District Rules 2201, 4301, and 4320] Federally Enforceable Through Title V Permit
4. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rule 108.1 (Fresno)] Federally Enforceable Through Title V Permit
5. The natural gas fuel usage shall not exceed 1,353,000 standard cubic feet during any given day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Except during start-up and shutdown, emissions from this unit shall not exceed any of the following limits: 7 ppmvd NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.008 lb-NO<sub>x</sub>/MMBtu; 200 ppmvd CO @ 3% O<sub>2</sub> or 0.148 lb-CO/MMBtu; 0.0027 lb-VOC/MMBtu; 0.0024 lb-PM<sub>10</sub>/MMBtu; or 0.00285 lb-SO<sub>x</sub>/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
7. During start-up and shutdown, emissions from this unit shall not exceed any of the following limits: 0.83 lb-NO<sub>x</sub>/hr; 11.1 lb-CO/hr; 0.20 lb-VOC/hr; 0.18 lb-PM<sub>10</sub>/hr; or 0.21 lb-SO<sub>x</sub>/hr. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. The total duration of start-up time shall not exceed 9.0 hours per day. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. The total duration of start-up time shall not exceed 6.0 hours per occurrence. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
10. The total duration of shutdown time shall not exceed 6.0 hours per day. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. The total duration of shutdown time shall not exceed 3.0 hours per occurrence. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. The permittee shall maintain daily records of start-up and shutdown durations and number of occurrences of each. [District Rules 1070, 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up and shutdown. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. The ammonia (NH<sub>3</sub>) emissions from the exhaust of the SCR system serving this boiler shall not exceed 10 ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
15. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. Source testing to measure the NO<sub>x</sub>, CO and NH<sub>3</sub> emissions from this unit shall be conducted at least once every twelve months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve months. [District Rules 2201, 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. Source testing for ammonia slip shall be conducted utilizing BAAQMD method ST-1B. [District Rules 1081 and 4102] Federally Enforceable Through Title V Permit
23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
25. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within five days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
26. The permittee shall monitor and record the stack concentration of ammonia (NH<sub>3</sub>) at least once during each month in which a source test is not performed. NH<sub>3</sub> monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within one day of restarting the unit unless monitoring has been performed within the last month. [District Rule 4102]

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

27. If the NO<sub>x</sub>, CO or NH<sub>3</sub> concentrations, as measured by the portable analyzer or the District approved ammonia monitoring equipment, exceed the permitted levels, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than one hour of operation after detection. If the portable analyzer or the ammonia monitoring equipment continue to show emission limit violations after one hour of operation following detection, the permittee shall notify the District within the following one hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. All NO<sub>x</sub>, CO, O<sub>2</sub> and NH<sub>3</sub> emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The NO<sub>x</sub>, CO and O<sub>2</sub> analyzer as well as the NH<sub>3</sub> emission monitoring equipment shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. NH<sub>3</sub> emission readings shall be conducted at the time the NO<sub>x</sub>, CO and O<sub>2</sub> readings are taken. The readings shall be converted to ppmvd @ 3% O<sub>2</sub>. [District Rule 4102]
30. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, NH<sub>3</sub>, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent by volume and the measured NO<sub>x</sub>, CO, and NH<sub>3</sub> concentrations corrected to 3% O<sub>2</sub>, (3) make and model of the portable analyzer, (4) portable analyzer calibration records, (5) the method of determining the NH<sub>3</sub> emission concentration, and (6) a description of any corrective action taken to maintain the emissions at or below the acceptable levels. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
31. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
32. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588. [District Rules 2520, 9.3.2, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
33. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
34. The permittee shall maintain records of the daily amount of natural gas consumed by this boiler, in standard cubic feet. [District Rule 2201] Federally Enforceable Through Title V Permit
35. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
36. Compliance with permit conditions in the Title V permit shall be deemed compliance with subsumed requirements of County Rules 408 (Fresno) and Rule 404 (Fresno); and SJVUAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: County Rule 406 (Fresno); and SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201, 4301, and 4305. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 1081 and County Rule 108.1 (Fresno). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

40. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source because it is not used to produce electricity for sale and was constructed prior to June 9, 1989 without modifications or reconstruction. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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