

FEB 14 2014

Terry Coble
Covanta Stanislaus, Inc.
P O Box 278
Crows Landing, CA 95313

Re: Notice of Final Action - Minor Title V Permit Modification
District Facility # N-2073
Project # N-1130690

Dear Mr. Coble:

The Air Pollution Control Officer has modified the Title V permit for Covanta Stanislaus, Inc. by incorporating Authority to Construct N-2073-1-12. The proposed project was to add equipment to the existing ash handling system to separate non-ferrous metals. The proposed equipment includes: a screen (+/- 3/8"), two eddy current separators (ECSs), two non-ferrous storage bins, and associated conveying system.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on April 4, 2013. No comments were received following the District's preliminary decision on this project. Please note that the proposed Title V operating permit has been amended to include the existing requirements in the current Permit to Operate (PTO) N-2073-1-13 along with the new requirements from ATC N-2073-1-12 that were previously disclosed in the preliminary decision.

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: 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-2073-1-14

EXPIRATION DATE: 10/31/2016

EQUIPMENT DESCRIPTION:

TWO 400 TON/DAY MUNICIPAL SOLID WASTE COMBUSTOR/BOILERS PRODUCING 21.5 MW OF ELECTRICITY EQUIPPED WITH DRY LIME SCRUBBERS, FLY ASH BAGHOUSE, AMMONIA INJECTION SYSTEM, LIME SLURRY INJECTION, ACTIVATED CARBON INJECTION SYSTEM, LIME AND SODA AND CARBON SILOS WITH FILTER VENTS, WASTE RECEIVING, ASH CONVEYING, AND ASH RESIDUE ENCLOSURE

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities and systems installed or used to comply with the terms and conditions of this Permit to Operate shall be maintained in good working order and be operated as required to meet the conditions of this permit. Operator shall, on each boiler, continuously operate and maintain the following air pollution controls to minimize emissions: baghouse for the control of particulates; lime slurry dry scrubber for the control of SO₂ and acid gas emissions; and ammonia injection system for the control of NO_x emissions. [District Rule 2080 & PSD SJ 86-03] Federally Enforceable Through Title V Permit
2. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. The baghouse shall have a maximum effective air-to-cloth ratio of 4:1 and shall be equipped with an automatic cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest individual combustion unit baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from any location other than designated vents on refuse receiving, processing or storage buildings at any time, except as provided in this permit to operate. Visible emissions shall be inspected quarterly under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
6. Paved areas shall be kept free of visible dust at all times and shall be vacuum swept at least once every fourteen days. Records of vacuum sweeping shall be maintained and made available to the District upon request. [District Rule 4102]
7. The NO_x control system shall be in full use whenever this equipment is fired with MSW. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The total PM₁₀ emissions from the ash handling system (including ferrous and non-ferrous material recovery operations) inside the ash enclosure shall not exceed 1.2 pounds in any one day and 402 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with these limits. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM₁₀ emissions from the non-ferrous material recovery equipment in the ash enclosure shall not exceed 183 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with this limit. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. The ash shall be handled in such a manner as to mitigate fugitive emissions to the maximum extent possible. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
11. The facility shall not cause visible emissions from ash conveying systems, including transfer points, in excess of 5% of the observation period, as determined by performing EPA Method 22 on a quarterly basis. Fugitive ash emissions do not include emissions within a building, an enclosed ash conveyor, or during periods of maintenance and repair of the ash conveyor systems. [40 CFR 60.36b] Federally Enforceable Through Title V Permit
12. Fuel Oil #2, with a sulfur content not to exceed 0.25% by weight, may be used as necessary to maintain the minimum combustion zone temperature requirements and annual usage shall not exceed 1,108,321 gallons for each combustor. [District NSR Rule, 40 CFR 60. 44b(c) & PSD SJ 86-03] Federally Enforceable Through Title V Permit
13. A furnace roof temperature of 1,100 degrees F shall be stabilized, as measured by multiple thermocouples, to ensure that a minimum temperature of 1,800 degrees F is established above the grate prior to the ignition of MSW. [District NSR Rule] Federally Enforceable Through Title V Permit
14. During any period of time that MSW is burning on the grates, the combustion gas retention time shall be maintained at a minimum of one second, the combustion zone temperature shall be maintained at a minimum of 1,800 degrees F, and the furnace roof temperature shall be maintained at an average (4 hour arithmetic block) of 1,100 degrees F, except during periods of start-up, shutdown, and malfunction, as defined in 40 CFR 60.58b(a). [District NSR Rule] Federally Enforceable Through Title V Permit
15. Hazardous materials shall not be burned in this equipment. Hazardous materials are that portion of solid waste which, by reason of its composition or characteristics, is: (a) hazardous waste as defined in the Solid Waste Disposal Act, 42 USC section 6901 et. seq., and the regulations thereunder, the California Health & Safety Code, Div. 20, Chs. 6.5, 6.7, and 6.8 (section 25100 et. seq.), the California Code of Regulations, Title 22, Div. 4.5, and any similar or substituted legislation or regulations or amendments to the foregoing; (b) any other materials which any governmental agency or unit having appropriate jurisdiction shall determine from time to time is harmful, toxic, or dangerous, or otherwise ineligible for disposal through the facility; and (c) any material, other than residential or commercial solid waste of the type historically collected by the County and the City as acceptable for disposal into non-hazardous waste landfills, which would result in process residue being hazardous waste under (a) or (b) above. [District Rule 4102]
16. The facility shall develop and annually update a site-specific operating manual in accordance with 40 CFR 60.54b(e). [40 CFR 60.35b] Federally Enforceable Through Title V Permit
17. Each operator and all maintenance personnel shall receive initial and annual training on the site-specific operating manual in accordance with 40 CFR 60.54b(f). [40 CFR 60.35b] Federally Enforceable Through Title V Permit
18. The site-specific operating manual and operating manual training records shall be accessible to all operations and maintenance personnel and shall be made available to the enforcement agency upon request. [40 CFR 60.35b] Federally Enforceable Through Title V Permit
19. The District reserves the right to require the permittee to re-evaluate the health risk assessment if there is a significant change in population locations as projected in the currently approved health risk assessment, or new health data becomes available. [District Rule 4102]
20. During any 3-hour periods of startup, shutdown, and malfunction, the facility shall be exempt from emission limits identified in this permit which are based upon 40 CFR 60 Subpart Cb or Subpart Eb. This exemption shall not apply to CO emission limits of 40 CFR 60.53b(a) if the malfunction is a loss of boiler water level control. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Opacity exhibited by the gases discharged to the atmosphere from each combustion unit, other than water vapor, shall not exceed 10 percent based on a six minute average as measured by EPA Method 9. [40 CFR 60.33b and 40 CFR Part 64] Federally Enforceable Through Title V Permit
22. The carbon monoxide (CO) emissions from each combustion unit shall not exceed 100 ppmv, dry, corrected to 7% O₂, as measured utilizing EPA Methods 1-4 and 10. Compliance with this limit shall be determined based on a four hour block arithmetic average as defined in 40 CFR 60.51b. [District Rule 4352 and 40 CFR 60.34b] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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23. The NOx emissions from each combustion unit shall not exceed 200 ppmv, dry, corrected to 12% CO2 as measured by EPA Methods 1-4 and 7E. Compliance with this limit shall be determined based on an eight rolling hour average. [District NSR Rule, District Rule 4352, and 40 CFR 60.33b] Federally Enforceable Through Title V Permit
24. Either the SO2 emissions from each combustion unit shall not exceed 30 ppmv, dry, corrected to 12% CO2, based on an eight hour rolling average, or the SO2 removal efficiency shall be at least 80% as measured by EPA Methods 1-4 and 6C. The SO2 80% removal efficiency shall be based on the measurement of the inlet and outlet SO2 concentrations, corrected to 12% CO2. [District NSR Rule] Federally Enforceable Through Title V Permit
25. The SO2 emissions from each combustion unit shall not exceed 29 ppmv, dry, corrected to 12% CO2, or the SO2 removal efficiency shall be at least 75% (by weight or volume), whichever is less stringent as measured by EPA Methods 1-4 and 6C. Compliance with this limit shall be determined based on a 24-hour daily geometric mean. EPA method 19 shall be used to calculate the daily geometric average sulfur dioxide emission concentration and removal efficiency. [40 CFR 60.33b] Federally Enforceable Through Title V Permit
26. Particulate matter emissions from each combustion unit shall not exceed 0.0275 gr/dscf, corrected to 12% CO2, as measured by EPA Methods 1 through 5, including the condensable portion in the "back-half". [District NSR Rule] Federally Enforceable Through Title V Permit
27. Filterable particulate matter (i.e. front half) emissions from each combustion unit shall not exceed any of the following emission limits: 0.011 gr/dscf, corrected to 12% CO2; 25 milligrams/dscf, corrected to 7% O2; 0.10 lb/MMBtu heat input. Owner or operator shall conduct a performance test for particulate matter on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) with EPA Method 1; EPA Method 3, 3A, or 3B; and EPA Method 5. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 degrees C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run. [District NSR Rule, 40 CFR 60.33b, 40 CFR 60.38b, and 40 CFR 60.43b(d)(1)] Federally Enforceable Through Title V Permit
28. Filterable particulate matter emissions from each combustion unit shall not exceed 0.008 gr/dscf, corrected to 12% CO2, for the fraction of particles less than 2u in diameter, as measured by Andersen Cascade Impactor, Flow Sensor Multiclone or any other equivalent measurement as validated by EPA Method 301. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Each combustion unit shall only be allowed to emit half of the total allowable (mass) emission rate for each pollutant. [District NSR Rule] Federally Enforceable Through Title V Permit
30. The CO emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
31. The CO emissions shall not exceed 121.9 tons/yr. The annual emissions shall be computed on a daily (i.e. 24 hours) basis and shall be running total of the latest 8,760 hours. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit
32. The NOx emissions shall not exceed 2,260 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
33. The NOx emissions shall not exceed 344.4 tons/year. The annual emissions shall be computed on a daily (i.e. 24 hours) basis and shall be running total of the latest 8,760 hours. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit
34. The SO2 emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
35. The SO2 emissions shall not exceed 121.9 tons/year. The annual emissions shall be computed on a daily (i.e. 24 hours) basis and shall be running total of the latest 8,760 hours. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. The PM emissions shall not exceed 475 pounds in any one day. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E=17.37 \times P^{0.16}$ if P is greater than 30 tons per hour. Particulate emissions shall be no more than 0.1 lbs per 100 lbs of combustible refuse charged. [District Rules NSR, 4202, and 4203, 4.3] Federally Enforceable Through Title V Permit
37. The PM emissions shall not exceed 72.4 tons/year. The annual emissions shall be computed on a monthly basis and shall be running total of the latest 12 months. [District NSR Rule] Federally Enforceable Through Title V Permit
38. The combined post-control PM10 emissions from the combustion units shall not exceed 70 ton/yr. The annual emissions shall be computed on a monthly basis and shall be running total of the latest 12 months. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
39. Emissions of combustion contaminants from each fuel burning equipment unit shall not exceed 0.1 gr/dscf, corrected to 12% CO₂, and 10 lb/hr. Combustion contaminants are defined as total PM (filterable plus condensable) minus the ammonium salts (e.g. ammonium chloride, ammonium sulfate, ammonium bisulfate, etc.) present in the condensable PM fraction. A "fuel burning equipment unit" is the minimum number of fuel burning equipment required to operate simultaneously for the production of useful heat. Compliance with this emission limit shall be demonstrated annually by source test conducted according to EPA Methods 5 and 202 (or other APCO approved methods). Ammonium salts in the condensable PM fraction shall be determined by analysis of the condensable PM fraction by ion chromatography (or other APCO approved method). [District Rule 4301] Federally Enforceable Through Title V Permit
40. The THC emissions shall not exceed 96 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
41. The THC emissions shall not exceed 14.6 tons/year. The annual emissions shall be computed on a monthly basis and shall be running total of the latest 12 months. [District NSR Rule] Federally Enforceable Through Title V Permit
42. The THC emissions (as CH₄) from each combustion unit shall not exceed 70 ppmv, dry, corrected to 12% CO₂ as measured by EPA Methods 1-4 and 25A. [District NSR Rule] Federally Enforceable Through Title V Permit
43. Ammonia (NH₃) breakthrough of the exhaust shall not exceed 50 ppmv, dry, as measured by BAAQMD Method ST-1B. The facility shall be exempt from this condition for periods of start-up, shutdown, and malfunction as defined in 40 CFR 60.58b(a). [District Rule 4102]
44. The Antimony emissions from each combustion unit shall not exceed 0.0315 g/s as measured by CARB Method 436. [District Rule 4102]
45. The Arsenic emissions from each combustion unit shall not exceed 0.0005 g/s as measured by CARB Method 436. [District Rule 4102]
46. The Beryllium emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436. [District Rule 4102]
47. The Cadmium emissions from each combustion unit shall not exceed either of the following: 0.0013 g/s; 0.035 milligrams/dscf, corrected to 7% O₂; each as measured by EPA Methods 1, 3, and 29 [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
48. The Chromium +6 emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436 (5% of the total chromium shall be considered to be hexavalent chromium). [District Rule 4102]
49. The Copper emissions from each combustion unit shall not exceed 0.155 g/s as measured by CARB Method 436. [District Rule 4102]
50. The Dioxin/Furan emissions from each combustion unit shall not exceed 30 ng/dscm (total mass), corrected to 7% O₂, as measured by EPA Method 23. [40 CFR 60.33b] Federally Enforceable Through Title V Permit
51. The Dioxin/Furan emissions from each combustion unit shall not exceed 50 ng/s, based on the Department of Health Services toxic equivalent calculation. [District Rule 4102]
52. The Hydrogen Fluoride (HF) emissions from each combustion unit shall not exceed 0.05 g/s as measured by EPA Method 26. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

53. The Hydrogen Chloride (HCl) emissions from each combustion unit shall not exceed either of the following: 1.4 g/s; 29 ppmv or the HCl removal efficiency shall be at least 95% (by weight or volume), whichever is less stringent, corrected to 7% O₂; each as measured by EPA Method 26. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
54. The Lead emissions from each combustion unit shall not exceed either of the following: 0.014 g/s; 0.400 milligrams/dscf, corrected to 7% O₂; each as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
55. The Manganese emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]
56. The Mercury emissions from each combustion unit shall not exceed 0.050 mg/dscm, corrected to 7% O₂, or the mercury removal efficiency shall be at least 85% by weight, whichever is less stringent, as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b] Federally Enforceable Through Title V Permit
57. The Mercury emissions from each combustion unit shall not exceed 0.0025 g/s (3-hour average). [PSD ATC SJ 86-03 and District Rule 4102] Federally Enforceable Through Title V Permit
58. The Nickel emissions from each combustion unit shall not exceed 0.025 g/s as measured by CARB Method 436. [District Rule 4102]
59. The Selenium emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]
60. The Vanadium emissions from each combustion unit shall not exceed 0.15 g/s as measured by CARB Method 436. [District Rule 4102]
61. The Zinc emissions from each combustion unit shall not exceed 0.315 g/s as measured by CARB Method 436. [District Rule 4102]
62. The mass emission rates shall be calculated from the hourly stack concentrations and the volumetric flow rate using municipal solid waste Carbon Dioxide based F-factor of 1820 dscf/MMBtu (EPA Method 19, Table 19-2). [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit
63. The total steam generated from each boiler shall not exceed 110% of the maximum demonstrated combustion unit load achieved in the most recent Dioxin/Furan performance test, as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit
64. The maximum flue gas temperature, measured at the particulate matter control device inlet from each boiler, shall not be higher than 17 deg. C (31 deg. F) above the maximum demonstrated particulate matter control device temperature as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit
65. The steam load and particulate matter control device inlet flue gas temperature limitations shall apply at all times except during the annual Dioxin/Furan performance test, the two weeks preceding the annual Dioxin/Furan performance test, and when the facility obtains a waiver in accordance with permission granted by the Administrator or the Air Pollution Control Officer. [40 CFR 60.53b(b)] Federally Enforceable Through Title V Permit
66. The ammonia (NH₃) injection rate shall be measured and recorded continuously. [District NSR Rule] Federally Enforceable Through Title V Permit
67. The facility shall install, calibrate, maintain, and operate a carbon dioxide CEM at the economizer and stack locations of each combustion unit, in accordance with 40 CFR 60.58b(b) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit
68. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.13 and Appendix B. [40 CFR 60.38b and 40 CFR Part 64] Federally Enforceable Through Title V Permit
69. The facility shall install, calibrate, maintain, and operate a sulfur dioxide CEM at the stack locations in accordance with 40 CFR 60.58b(e) and Appendices B and F. [40 CFR 60.38b] 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.

70. The facility shall install, calibrate, maintain, and operate a nitrogen oxides CEM at the stack locations in accordance with 40 CFR 60.58b(h) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit
71. The facility shall install, calibrate, maintain, and operate a carbon monoxide CEM at the stack locations in accordance with 40 CFR 60.58b(i) and Appendices B and F. [40 CFR 60.38b] Federally Enforceable Through Title V Permit
72. The facility shall install, calibrate, maintain, and operate a continuous steam flow monitoring and recording device and a device to measure temperature at the inlet of each particulate matter control device in accordance with 40 CFR 60.58b(i). [40 CFR 60.38b] Federally Enforceable Through Title V Permit
73. The permittee shall be responsible for providing the District access, via telemetry, to the stored computerized data associated with the continuous emission monitoring system. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit
74. Continuous monitoring and recording equipment shall be provided for the following: No. 2 fuel oil burning rate and temperature. Each combustion unit shall have sufficient monitors to demonstrate combustion unit temperature profile as required in condition 12 and flue gas temperature into the particulate matter control device as required by condition 61. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit
75. In the event that monitoring or test data show that emissions from the facility exceed any emission limitation conditions of this Permit to Operate, the permittee shall take immediate corrective action to bring the plant's emissions within these limitations. [District NSR Rule] Federally Enforceable Through Title V Permit
76. Emissions in excess of those allowed by this permit shall be cause for the District to order an immediate reduction in fuel feed rate or to take other appropriate abatement action. [District Rule 2080] Federally Enforceable Through Title V Permit
77. The permittee shall notify the District of any emission violation by the next working day after such violation has occurred. [District Rule 2080] Federally Enforceable Through Title V Permit
78. Performance testing to demonstrate compliance with permit conditions shall be conducted annually (at least every calendar year but no later than 12 months from previous performance testing). The main exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples using approved test methods. [District Rule 1081, 3.0, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit
79. Performance testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any performance test, and a test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
80. The results of each performance test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
81. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO₂ on a dry basis: Oxides of nitrogen emissions; Total hydrocarbons, as methane; Carbon monoxide; Sulfur dioxide; Concentrations of gaseous ammonia (NH₃); and Exhaust flow rate, wet and dry. [District Rule 1081, 4.0]
82. Performance tests shall include: Total particulate matter emission concentration corrected to 12% CO₂ and shall be conducted including the condensable portion in the "back half"; and Filterable particulate matter emission concentration corrected to 12% CO₂ and shall be conducted including only "front-half". If the measured Filterable particulate matter emission concentration is greater than 0.008 gr/dscf, corrected to 12% CO₂, testing shall be conducted to verify compliance with condition 26. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit
83. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO₂ on a dry basis: Polynuclear aromatic hydrocarbons (Benzo-A-Pyrene, Benzo-E-Pyrene, Benzo-A-Anthracene, and Coronene and PCB); and Dioxins and Furans. [District Rule 1081, 4.0] 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.

84. The following Dioxin isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDD; total tetra CDD; 1,2,3,7,8 penta CDD; total penta CDD; 1,2,3,4,7,8 hexa CDD; 1,2,3,6,7,8 hexa CDD; 1,2,3,7,8,9 hexa CDD; total hexa CDD; 1,2,3,4,6,7,8 hepta CDD; total hepta CDD; total octa CDD. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit
85. The following Furan isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDF; total tetra CDF; 1,2,3,7,8 penta CDF; 2,3,4,7,8 penta CDF; total penta CDF; 1,2,3,4,7,8 hexa CDF; 1,2,3,6,7,8 hexa CDF; 1,2,3,7,8,9 hexa CDF; 2,3,4,6,7,8 hexa CDF; total hexa CDF; 1,2,3,4,6,7,8 hepta CDF; 1,2,3,4,7,8,9 hepta CDF; total hepta CDF; total octa CDF. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit
86. The facility may elect to alternate Dioxin/Furan testing on each stack, if the previous two years indicate Dioxin/Furan emissions levels are less than or equal to 15 ng/dscm total mass, corrected to 12% CO₂. [40 CFR 60.38b and District Rule 4102] Federally Enforceable Through Title V Permit
87. Performance tests of both combustion unit exhausts shall be performed for HCl, corrected to 12% CO₂ on a dry basis, and for the following heavy metals, corrected to 12% CO₂ on a dry basis: Antimony, Arsenic, Beryllium, Cadmium, Total Chromium (5% of the total chromium shall be considered to be hexavalent chromium), Copper, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium, and Zinc. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit
88. A performance test of both combustion unit exhausts shall be performed for HF, corrected to 12% CO₂ on a dry basis. [District Rule 4102]
89. Cooling tower drift shall not exceed 0.005 percent of the circulating water flow or a maximum annual drift emission rate of 1,090,000 kg/year as demonstrated by design calculations. Chromium compounds shall not be used as an additive in the cooling tower water. [District Rule 4102]
90. Soot blowers or super heater rappers shall be operated in a mode consistent with normal cleaning requirements of the system during the performance tests. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit
91. The facility shall submit an annual report in accordance with 40 CFR 60.59b(g) by February 1 of each year following the calendar year in which the data were collected. [40 CFR 60.39b] Federally Enforceable Through Title V Permit
92. The facility shall submit semiannual reports within 31 days following the end of each 6 month period in accordance with 40 CFR 60.59b(h). [40 CFR 60.39b] Federally Enforceable Through Title V Permit
93. A monthly report summarizing the quantity of pollutant emissions of SO₂, NO_x, and CO, based on data from the CEM system, shall be included in the information required by following condition. Copies of the monthly reports prepared pursuant to this condition shall be sent to the district office by the 15th day of the following month. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit
94. Permittee shall maintain a complete file containing all measurements, records, required monitoring data and support information. Support information includes copies of all reports required by this permit and for continuous monitoring instrumentation, and all calibration and maintenance records. This file shall include, but not be limited to: (a) Data collected from in-stack monitoring instruments; (b) Input rate records for all fuels burned; (c) Purchase records that indicate the sulfur content, by weight, of all fuel oil #2 purchased; (d) Results of all source tests; (e) All other air pollution system performance evaluations and records of calibration checks, calibration gas cylinder changes, adjustments and maintenance performed on all equipment (including CEM adjustment or maintenance). [District Rule 1070, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit
95. Records shall be kept for each unit with the following: (a) Specific time of operation of each combustion unit; (b) Specific time of operation of the auxiliary burners; (c) Equipment breakdowns or malfunctions; (d) Exceedances of emission standards. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit
96. The permittee shall follow all written maintenance procedures and schedules for the following: all emissions control equipment, combustion units, and monitoring equipment for measuring emission levels. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

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97. Operating and maintenance manuals, subject to District review, shall be provided for the equipment covered by this permit. The permittee's operators shall be trained in the operation and maintenance of both fuel burning and pollution control equipment. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit
98. If the Fuel Oil #2 is Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.25% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
99. If the Fuel Oil #2 is non-certified for sulfur content of less than 0.25% by weight, then the owner or operator shall determine the sulfur content of each delivery of Fuel Oil being fired. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
100. Permittee shall provide access to all sampling ports and platforms on boiler exhaust stacks in accordance with 40 CFR 60.8(e) and District Rule 1081 (as amended 12/16/93). [District Rule 1081, 3.3; & PSD SJ 86-03] Federally Enforceable Through Title V Permit
101. The SO₂ emissions from both combustion units shall be more stringent of 35.6 lb/hr or 42 ppm, dry, corrected to 12% CO₂, averaged over three hour period and more stringent of 33.3 lb/hr or 40 ppm, dry, corrected to 12% CO₂, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit
102. The NO_x emissions from both combustion units shall be more stringent of 107 lb/hr or 175 ppm, dry, corrected to 12% CO₂, averaged over three hour period and more stringent of 100 lb/hr or 165 ppm, dry, corrected to 12% CO₂, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit
103. The CO emissions from both combustion units shall be 33.3 lb/hr or 400 ppm, dry, corrected to 12% CO₂ (3-hour average). [PSD SJ 86-03] Federally Enforceable Through Title V Permit
104. The Mercury emissions from both combustion units shall not exceed 0.083 lb/hr (3-hour average) as measured by EPA Method 101. Upon EPA approval of a change to the facility PSD permit allowing Method 29 to be used in place of Method 101, Method 29 may be used to measure Mercury emissions. (40 CFR Part 61, Appendix B). [PSD SJ 86-03] Federally Enforceable Through Title V Permit
105. Permittee shall submit a written report of all excess emissions to EPA (Attn: A-3-3) for every calendar quarter. The report shall include the following: (a) the magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions. (b) Specific identification of each time period of excess emissions that occurs during startups, shutdowns, and malfunctions of furnace/boiler system. The nature and cause of malfunction (if known) and corrective action taken or preventive measures adopted shall be reported. (c) The date and time identifying each period during which continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs and adjustments. (d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in report. (e) Excess emissions shall be defined as any three-hour period during which the average emissions of NO_x, SO₂, and/or CO, as measured by continuous monitoring system exceeds the NO_x, SO₂, and/or CO emission limit set for each of the pollutants. (f) Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for purposes of PSD permit. [PSD SJ 86-03] Federally Enforceable Through Title V Permit
106. The calculation of annual emissions shall commence with the submission of the first fourth-quarter report, and will continue to be calculated and submitted with each successive quarterly report. The quarterly reports shall contain highest annual emissions computed for each week in the quarter, as well as all excesses of the annual emissions limits. [PSD SJ 86-03] Federally Enforceable Through Title V Permit
107. Permittee shall meet all applicable requirements of Subparts A, Db, and E of 40 CFR 60. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

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108. Permittee shall comply with following activated carbon mass feed requirements: (1) During the initial performance test and each subsequent performance test for dioxins/furans and mercury, as applicable, the permittee shall calculate and record an average carbon mass feed rate in pounds per hour being employed based on load cell measurements of carbon feed during the test; (2) During operation of the facility, the carbon injection mass feed rate must be measured using load cells, calculated and recorded on an eight (8) hour block average basis, and must equal or exceed the level(s) documented during the most recent performance tests for dioxins/furans and mercury. When calculating the eight (8) hour block average, exclude the hours when the combustion unit is not operational and include the hours when the combustion unit is operating but the carbon feed system is not working properly. [40 CFR 60.38b & 40 CFR 60.58b(m)(1), (2)] Federally Enforceable Through Title V Permit
109. The permittee shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the following procedures: (1) The weight of carbon delivered to the plant. (2) The permittee shall estimate the average carbon mass feed rate for each during the operation of each combustion unit, and sum the results for both units at the plant for the total number of hours of operation during the calendar quarter. [40 CFR 60.38b & 40 CFR 60.58b(m)] Federally Enforceable Through Title V Permit
110. Should additional guidance related to the June 3, 1986 PSD remand, applicable to PSD permit action, be developed, the Permittee shall provide to EPA any such analysis, data, or demonstration of compliance with the other requirements within the time required by the guidance. [PSD SJ 86-03] Federally Enforceable Through Title V Permit
111. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in Section VIII of these conditions. In addition, the Regional Administrator shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under Section IX of these conditions, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 86-03] Federally Enforceable Through Title V Permit
112. Facility shall operate only when a fully certified chief facility operator or fully certified shift supervisor is on duty, except as allowed under 40 CFR 60.54b(c)(2). [40 CFR 60.35b] Federally Enforceable Through Title V Permit
113. All chief facility operators, shift supervisors, and control room operators shall have completed the EPA or State municipal waste combustor operator training course. [40 CFR 60.35b] Federally Enforceable Through Title V Permit
114. Owner or operator shall conduct a performance test for opacity on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) using EPA Method 9 and the average of three test runs to determine compliance. [40 CFR 60.38b] Federally Enforceable Through Title V Permit
115. Permittee shall establish parameters for the differential pressure across the baghouse filter, which provides a reasonable assurance of ongoing compliance with emission limitations stated in this permit. The initial parameters shall be established using manufacturer/supplier recommendations and by correlating with opacity readings and source test results. These parameters shall be reviewed annually and revised if necessary based on PM10 source test result data, historical operating data and manufacturer/supplier recommendations. [40 CFR Part 64] Federally Enforceable Through Title V Permit
116. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
117. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

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118. If the District or EPA determine 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 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
119. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
120. During any 96-hour periods of startup or 12-hour periods of shutdown, the facility shall be exempt from emission limits identified in this permit which are based upon District Rule 4352. [District Rule 4352] Federally Enforceable Through Title V Permit
121. Upon detecting any excursion from the 10% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit
122. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit
123. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit
124. On and after January 1, 2013, permittee shall demonstrate compliance with Table 1 emission limits and all applicable requirements of District Rule 4352 (December 15, 2011). [District Rule 4352] Federally Enforceable Through Title V Permit
125. Each time SO₂ emissions from each combustion unit exceeds 30 ppmv, dry, corrected to 12% CO₂, based on an eight-hour rolling average, facility shall demonstrate that SO₂ removal efficiency is at least 80% as measured by EPA Methods 1-4 and 6C, based on the measurement of the inlet and outlet SO₂ concentrations. [40 CFR Part 64]

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