



FEB 08 2011

Glenn Sizemore  
Air Products Manufacturing Corporation  
1010 Zephyr St  
Stockton, CA 95206

**Re: Notice of Minor Title V Permit Modification  
District Facility # N-802  
Project # N-1103320**

Dear Mr. Sizemore:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued Authority to Construct N-802-1-18 into the Title V operating permit. The proposed project is to install a carbon dioxide (CO<sub>2</sub>) analyzer into the existing continuous emissions monitoring system (CEMS) to comply with the federally mandated greenhouse gas (GHG) Reporting Regulations. The addition of the CO<sub>2</sub> analyzer required the replacement of the existing exhaust stack flow monitor.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authority to Construct N-802-1-18, emission increases, application, and previous Title V permit. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

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

Sincerely,

David Warner  
Director of Permit Services

DW/JK:dg

Enclosures

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

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

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
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**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



FEB 08 2011

Gerardo C. Rios, Chief  
Permits Office  
Air Division  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

Re: **Notice of Minor Title V Permit Modification**  
**District Facility # N-802**  
**Project # N-1103320**

Dear Mr. Rios:

Enclosed for you to review is an application for minor Title V permit modification for the facility identified above. Air Products Manufacturing Corporation is proposing a Title V minor permit modification to incorporate the recently issued Authority to Construct N-802-1-18 into the Title V operating permit. The proposed project is to install a carbon dioxide (CO<sub>2</sub>) analyzer into the existing continuous emissions monitoring system (CEMS) to comply with the federally mandated greenhouse gas (GHG) Reporting Regulations. The addition of the CO<sub>2</sub> analyzer required the replacement of the existing exhaust stack flow monitor.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authority to Construct N-802-1-18, emission increases, application, and previous Title V permit. Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter.

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

Sincerely,

David Warner  
Director of Permit Services

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## **Title V APPLICATION REVIEW Minor Modification**

**Facility Number:** N-802 **Date:** January 31, 2011  
**Facility Name:** Air Products Manufacturing Corporation  
**Mailing Address:** 1010 Zephyr St  
Stockton, CA 95206

**Contact Name:** Glenn T Sizemore  
**Phone:** (209) 983-0391  
**Fax:** (209) 983-1719

**Responsible Official:** Glenn T Sizemore  
**Title:** Plant Manager

**Processing Staff:** Jagmeet Kahlon  
**Project Number:** N1103320

### **I. PROPOSAL**

Air Products Manufacturing Corporation (APMC) has proposed to incorporate Authority to Construct (ATC) N-802-1-18 into the Title V operating permit. This ATC was issued without Certificate of Conformity (COC). The ATC authorized the facility to install a carbon dioxide (CO<sub>2</sub>) analyzer into the existing continuous emissions monitoring system (CEMS) to comply with the federally mandated greenhouse gas (GHG) Reporting Regulations. The addition of the CO<sub>2</sub> analyzer required the replacement of the existing exhaust stack flow monitor.

The purpose of this document is to identify all applicable requirements, determine if the facility will comply with the applicable requirements, and to provide the legal and factual basis for revising permit conditions that were established under Permit PTO N-802-1-17.

### **II. FACILITY LOCATION**

This facility is located at 1010 Zephyr St, Stockton, California.

### **III. EQUIPMENT DESCRIPTION**

COAL FIRED CIRCULATING FLUIDIZED BED BOILER (CAPACITY 550,000 LBS/HR STEAM) UTILIZING LIMESTONE INJECTION FOR SOX CONTROL, A THERMAL DENOX SYSTEM FOR NOX CONTROL, AND TWO CYCLONES VENTED TO A BAGHOUSE FOR PARTICULATE CONTROL

#### **IV. SCOPE OF EPA AND PUBLIC REVIEW**

The proposed project is a Minor Modification to the Title V permit. Therefore, public review is not required.

#### **V. APPLICABLE REQUIREMENTS**

Rule 2520 Federally Mandated Operating Permits (6/21/01)

#### **VI. DESCRIPTION OF PROPOSED MODIFICATIONS**

APMC has proposed to incorporate Authority to Construct (ATC) N-802-1-18 into the Title V operating permit. This permit is for the fluidized bed boiler. A copy of the ATC is included in Appendix II of this document. The following conditions were added in addition to the existing conditions from ATC N-802-1-17 during the permitting action under project N-1102970:

- The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520]
- Authority to Construct N-802-1-17 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]

APMC has submitted a permit application to modify the Title V permit to incorporate the changes authorized by ATC N-802-1-18, and the ATC N-802-1-17 has already been implemented into Title V permit. Thus, APMC had complied with the above conditions.

#### **VII. COMPLIANCE**

In accordance with Rule 2520, 3.20, the proposed project:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include;

- a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
  - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
  6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs (Appendix IV) ;
2. The source's suggested draft permit (Appendix I); and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used (Appendix III).

Compliance is expected with this Rule.

### **APPENDICES**

Appendix I: Proposed Title V Operating Permit No. N-802-1-19

Appendix II: Authority to Construct N-802-1-18

Appendix III: Permit Application

Appendix IV: Emissions Change

Appendix V: Title V Permit to Operate N-802-1-17

**Appendix I**  
**Proposed Title V Operating Permit No. N-802-1-19**

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-802-1-19

**EXPIRATION DATE:** 10/31/2009

**EQUIPMENT DESCRIPTION:**

COAL FIRED CIRCULATING FLUIDIZED BED BOILER (CAPACITY 550,000 LBS/HR STEAM) UTILIZING LIMESTONE INJECTION FOR SOX CONTROL, A THERMAL DENOX SYSTEM FOR NOX CONTROL, AND TWO CYCLONES VENTED TO A BAGHOUSE FOR PARTICULATE CONTROL

## PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere that exhibit greater than 20% opacity (6 minute average), except for one 6 minute period per hour of not more than 27% opacity. [40 CFR 60.42Da(b)] Federally Enforceable Through Title V Permit
2. The flue gas from the combustor shall be vented through a baghouse at all times (including soot blowing periods). [District NSR Rule] Federally Enforceable Through Title V Permit
3. The baghouse filtering media shall be fiberglass with a teflon B coating, or any other material that provides as good or better collection efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. 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] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The boiler may be fired on Utah Equivalent coal, Canadian coal, fluid coke, tire derived fuel, delayed coke, or agriculturally derived biomass. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of tire derived fuel used in the boiler shall not exceed 11% by weight of the total fuel used during any 48 hour period and not exceed 20% by weight of the total fuel used during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The annual heat input to the boiler from agriculturally derived biomass shall not exceed 50% of the boiler's heat input rating. [District Rule 2201] Federally Enforceable Through Title V Permit
10. An ultimate analysis for each stock of fuel, except for tire derived fuel, received shall be maintained on the premises at all times and shall be made available for District inspection upon request. The analysis shall include the heating value, and the Sulfur and Nitrogen content. Stock of fuel shall be defined as follows: rail delivered fuels - fuel delivered in one unit train; truck delivered fuels - fuel delivered during one week. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Natural gas fired burners shall be used during start-up to reach solid fuel ignition temperature throughout the combustor before feeding any solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The VOC emissions shall not exceed 1.86 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The PM10 emissions shall not exceed 9.82 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The NOx emissions shall not exceed 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The NOx concentration limitation of 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) shall not apply during start-up days. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The NOx emissions shall not exceed 54,180 pounds during the first calendar quarter, 54,782 pounds during the second calendar quarter, 55,384 pounds during the third calendar quarter, and 55,384 pounds during the fourth calendar quarter. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The cumulative NOx emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9). [District NSR Rule] Federally Enforceable Through Title V Permit
18. A record of the daily NOx emissions from the fluidized bed boiler shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
19. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9) shall be updated daily and kept on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The CO emissions shall not exceed 38.00 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
21. The SOx emissions shall be the more restrictive of 59.17 pounds per hour as determined by an eight hour rolling average or a SOx removal efficiency of no less than 70% by weight using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
22. The bottom ash from the bed and the fly ash from the economizer and baghouse shall be transferred to the ash silo via a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
23. This boiler shall be in compliance with 40 CFR 60, Subparts A and Da: Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978. [PSD 85-04, District Rule 4001, and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit
24. Source testing for NOx, CO, VOC, SOx, and PM10 emissions shall be conducted on an annual basis. [District Rule 4352, 6.3] Federally Enforceable Through Title V Permit
25. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Hourly emission rates for NOx, CO, VOC, SOx, and PM10 while source testing shall be calculated using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Source testing to measure concentrations of oxides of nitrogen (as NO2) shall be conducted using EPA method 7E or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
29. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10 or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
30. Source testing to measure the stack gas oxygen (O2) shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA method 25, CARB method 100, SCAQMD method 25.3, or EPA method 18. [District Rule 2520, 9.3.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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32. Source testing to measure concentrations of oxides of sulfur (SOx) as SO2 shall be conducted using EPA methods 6, 8, CARB method 100, or SCAQMD 6.1. [40 CFR 60.46, (b)] Federally Enforceable Through Title V Permit
33. Source testing to measure concentrations of PM10 shall be conducted using EPA method 201 and 202, EPA method 201a and 202, or CARB method 501 and 5, or SCAQMD Method 5.3 and 6.1. [40 CFR Subpart 51, Appendix M] Federally Enforceable Through Title V Permit
34. Source testing to measure stack gas velocity and volumetric flow rate shall be conducted using EPA method 2 or CARB method 2. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
35. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
36. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
37. Sulfur compound emission shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
38. Particulate Matter emission shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
39. NOx emissions shall not exceed 0.20 lb/MMBtu of heat input. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
40. CO emissions at dry stack gas conditions shall not exceed 400 ppmv @ 3% O2. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
41. The following pollutant emission levels shall not be exceeded: 200 pounds per hour of sulfur compounds, calculated as sulfur dioxide (SO2); 140 pounds per hour of nitrogen oxides, calculated as nitrogen dioxide (NO2); and ten (10) pounds per hour of PM. [District Rule 4301, 5.2] Federally Enforceable Through Title V Permit
42. The exhaust stack shall be equipped with continuous monitors/recorders for opacity, SO2, NOx, O2, & stack gas flow rate. The continuous emissions monitors shall meet the performance specifications in 40 CFR 60.13; 40 CFR 52, Appendix E; 40 CFR Part 51, Appendix P; 40 CFR Part 60, Appendix B; Relative Accuracy Audit of Appendix F or equivalent specification established by mutual agreement of the District, the ARB and the EPA. The sampling, analyzing and recording cycle shall be completed every successive 15 minute period. [District Rule 1080; 40 CFR 60.49Da; 40 CFR 64; and PSD 85-04] Federally Enforceable Through Title V Permit
43. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3; 40 CFR 60.7 (b)] Federally Enforceable Through Title V Permit
44. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
45. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
46. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] 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.

47. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
48. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 05/18/06), or as certified by a third party fuel supplier. [District Rule 4352, 6.2] Federally Enforceable Through Title V Permit
49. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
50. As-fired fuel monitoring under 60.49Da(b)(3) may use the following definitions of fuel lot size: for rail delivered fuels- the quantity of each type of fuel delivered in one unit train; for truck delivered fuels - the quantity of each type of fuel delivered during one week. As-fired fuel samples for unit train deliveries may be taken as the unit train is loaded by the fuel supplier. [40 CFR 60.49Da(b)(3)] Federally Enforceable Through Title V Permit
51. The owner/operator shall continuously operate and maintain limestone injection for control of SO<sub>2</sub> emission and low bed temperature, staged combustion, and selective non-catalytic reduction for control of NO<sub>x</sub> emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
52. A minimum SO<sub>2</sub> removal efficiency of 70% (3-hour average) shall be maintained at all times. [PSD 85-04] Federally Enforceable Through Title V Permit
53. There shall be no discharge of SO<sub>2</sub> in excess of 59 lbs/hr (8-hour average) or 100 lbs/hr (3-hour average) from the stack venting from the combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
54. There shall be no discharge of NO<sub>2</sub> in excess of 42 lbs/hr or 50 ppm at 3% O<sub>2</sub> (3-hour average) from the stack venting from the fluidized bed combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
55. Total NO<sub>x</sub> emitted in any 90 day period shall not exceed 64,980 lbs (rolling 90-day total). [PSD 85-04] Federally Enforceable Through Title V Permit
56. Natural gas shall only be used as an auxiliary fuel source for the facility during startup to raise the temperature of the fluidized bed to the solid fuel ignition point before feeding any solid fuel. [PSD 85-04] Federally Enforceable Through Title V Permit
57. The owner/operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD 85-04] Federally Enforceable Through Title V Permit
58. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD 85-04] 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.

59. The owner/operator shall submit a written report of all excess emissions to EPA 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 period of excess emissions that occurs during startups, shutdowns, and malfunctions of the fluidized bed combustion unit. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted shall also be reported; c) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or 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 the report; e) excess emissions shall be defined as any three-hour, or 90 day period during which the average emissions of NOx and/or SO2, as measured by the continuous monitoring system, exceeds the NOx and/or SO2 maximum emission limits set for each of the pollutants; f) excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purposes of the permit except for the NOx emission limit during normal facility startup; g) during a normal facility startup, excess NOx emissions shall not be considered a PSD permit violation provided the 90-day NOx emissions total (90-day rolling total) remains below 64,980 lbs. [PSD 85-04] Federally Enforceable Through Title V Permit
60. The 90 day total NOx emissions shall be calculated as a running hourly total of all NOx emissions. NOx emissions during periods when the NOx continuous emission monitor is inoperative shall be assumed to be 42 lbs/hr. [PSD 85-04] Federally Enforceable Through Title V Permit
61. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
62. 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 this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD 85-04] Federally Enforceable Through Title V Permit
63. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of 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 the conditions of this permit, 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 85-04] Federally Enforceable Through Title V Permit
64. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD 85-04] Federally Enforceable Through Title V Permit
65. All correspondence as required by this permit shall be forwarded to: a) Director, Air Division (Attn: AIR-3), EPA Region 9, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95812; c) Air Pollution Control Officer, San Joaquin Valley Air Pollution Control District, 1990 East Gettysburg Avenue, Fresno, CA, 93726-0244. [PSD 85-04] Federally Enforceable Through Title V Permit
66. Baghouse visible emissions shall be monitored in the boiler stack using the opacity monitor installed to comply with the opacity monitoring requirements of 40 CFR 60 Subpart Da while the unit is operating. [40 CFR Part 64] Federally Enforceable Through Title V Permit
67. The baghouse visible emissions as monitored by the boiler stack opacity monitor shall not exceed 2% opacity on a 3-hour rolling average while the boiler is operating. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
68. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

69. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
70. 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 part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
71. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
72. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
73. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
74. The permittee shall maintain records of the actual SOx emissions from this unit for each 12 consecutive-month rolling period for a period of 5 years beginning on the date the unit starts operation under this permit for the purposes of demonstrating that there has not been a "significant net emissions increase" above the historic actual SOx emissions level of 266,220 lb/year reported under project N1092178. The actual net emissions increase shall be calculated in accordance with 40 CFR 51.165. If a significant net emissions increase above the actual SOx emissions level (i.e., 266,220 lb/year) occurs during any 12 consecutive months in the 5 year recordkeeping period, the permittee shall submit a permit application to modify the permit to meet the Major Modification requirements that were avoided under project N1092178; that is, "Top-Down Best Available Control Technology Analysis" for SOx emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
75. The auxiliary boiler (N-802-9) can be operated simultaneously with the CFB boiler (N-802-1) for up to 250 hours per year including periods of CFB boiler startup, shutdown, and emissions testing of the auxiliary boiler required by the EPA, CARB or the District. The permittee shall keep sufficient records to demonstrate compliance with the requirements of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
76. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit

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

DRAFT

**Appendix II**  
**Authority to Construct N-802-1-18**



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** N-802-1-18

**ISSUANCE DATE:** 08/11/2010

**LEGAL OWNER OR OPERATOR:** AIR PRODUCTS MANUFACTURING CORPORATION

**MAILING ADDRESS:** 1010 ZEPHYR ST  
STOCKTON, CA 95206

**LOCATION:** 1010 ZEPHYR ST  
STOCKTON, CA 95206

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF AN EXISTING COAL FIRED CIRCULATING BOILER TO ADD A CO2 CEMS MONITOR AND TO REPLACE THE EXISTING STACK FLOW MONITOR. POST-PROJECT EQUIPMENT DESCRIPTION IS: COAL FIRED CIRCULATING FLUIDIZED BED BOILER (CAPACITY 550,000 LBS/HR STEAM) UTILIZING LIMESTONE INJECTION FOR SOX CONTROL, A THERMAL DENOX SYSTEM FOR NOX CONTROL, AND TWO CYCLONES VENTED TO A BAGHOUSE FOR PARTICULATE CONTROL

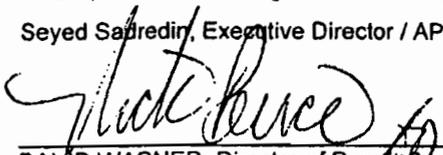
### CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Authority to Construct N-802-1-17 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
3. No air contaminant shall be discharged into the atmosphere that exhibit greater than 20% opacity (6 minute average), except for one 6 minute period per hour of not more than 27% opacity. [40 CFR 60.42Da(b)] Federally Enforceable Through Title V Permit
4. The flue gas from the combustor shall be vented through a baghouse at all times (including soot blowing periods). [District NSR Rule] Federally Enforceable Through Title V Permit
5. The baghouse filtering media shall be fiberglass with a teflon B coating, or any other material that provides as good or better collection efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
6. 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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Saadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
N-802-1-18 Aug 11 2010 1:20PM - HARADERJ Joint Inspection NOT Required

7. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The boiler may be fired on Utah Equivalent coal, Canadian coal, fluid coke, tire derived fuel, delayed coke, or agriculturally derived biomass. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The amount of tire derived fuel used in the boiler shall not exceed 11% by weight of the total fuel used during any 48 hour period and not exceed 20% by weight of the total fuel used during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
11. The annual heat input to the boiler from agriculturally derived biomass shall not exceed 50% of the boiler's heat input rating. [District Rule 2201] Federally Enforceable Through Title V Permit
12. An ultimate analysis for each stock of fuel, except for tire derived fuel, received shall be maintained on the premises at all times and shall be made available for District inspection upon request. The analysis shall include the heating value, and the Sulfur and Nitrogen content. Stock of fuel shall be defined as follows: rail delivered fuels - fuel delivered in one unit train; truck delivered fuels - fuel delivered during one week. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Natural gas fired burners shall be used during start-up to reach solid fuel ignition temperature throughout the combustor before feeding any solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The VOC emissions shall not exceed 1.86 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The PM10 emissions shall not exceed 9.82 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The NOx emissions shall not exceed 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The NOx concentration limitation of 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) shall not apply during start-up days. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The NOx emissions shall not exceed 54,180 pounds during the first calendar quarter, 54,782 pounds during the second calendar quarter, 55,384 pounds during the third calendar quarter, and 55,384 pounds during the fourth calendar quarter. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The cumulative NOx emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9). [District NSR Rule] Federally Enforceable Through Title V Permit
20. A record of the daily NOx emissions from the fluidized bed boiler shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
21. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9) shall be updated daily and kept on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
22. The CO emissions shall not exceed 38.00 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
23. The SOx emissions shall be the more restrictive of 59.17 pounds per hour as determined by an eight hour rolling average or a SOx removal efficiency of no less than 70% by weight using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
24. The bottom ash from the bed and the fly ash from the economizer and baghouse shall be transferred to the ash silo via a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
25. This boiler shall be in compliance with 40 CFR 60, Subparts A and Da: Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978. [PSD 85-04, District Rule 4001, and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

26. Source testing for NO<sub>x</sub>, CO, VOC, SO<sub>x</sub>, and PM<sub>10</sub> emissions shall be conducted on an annual basis. [District Rule 4352, 6.3] Federally Enforceable Through Title V Permit
27. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Hourly emission rates for NO<sub>x</sub>, CO, VOC, SO<sub>x</sub>, and PM<sub>10</sub> while source testing shall be calculated using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
29. 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
30. Source testing to measure concentrations of oxides of nitrogen (as NO<sub>2</sub>) shall be conducted using EPA method 7E or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10 or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
32. Source testing to measure the stack gas oxygen (O<sub>2</sub>) shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
33. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA method 25, CARB method 100, SCAQMD method 25.3, or EPA method 18. [District Rule 2520, 9.3.1] Federally Enforceable Through Title V Permit
34. Source testing to measure concentrations of oxides of sulfur (SO<sub>x</sub>) as SO<sub>2</sub> shall be conducted using EPA methods 6, 8, CARB method 100, or SCAQMD 6.1. [40 CFR 60.46, (b)] Federally Enforceable Through Title V Permit
35. Source testing to measure concentrations of PM<sub>10</sub> shall be conducted using EPA method 201 and 202, EPA method 201a and 202, or CARB method 501 and 5, or SCAQMD Method 5.3 and 6.1. [40 CFR Subpart 51, Appendix M] Federally Enforceable Through Title V Permit
36. Source testing to measure stack gas velocity and volumetric flow rate shall be conducted using EPA method 2 or CARB method 2. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
37. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
38. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
39. Sulfur compound emission shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
40. Particulate Matter emission shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
41. NO<sub>x</sub> emissions shall not exceed 0.20 lb/MMBtu of heat input. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
42. CO emissions at dry stack gas conditions shall not exceed 400 ppmv @ 3% O<sub>2</sub>. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
43. The following pollutant emission levels shall not be exceeded: 200 pounds per hour of sulfur compounds, calculated as sulfur dioxide (SO<sub>2</sub>); 140 pounds per hour of nitrogen oxides, calculated as nitrogen dioxide (NO<sub>2</sub>); and ten (10) pounds per hour of PM. [District Rule 4301, 5.2] Federally Enforceable Through Title V Permit

44. The exhaust stack shall be equipped with continuous monitors/recorders for opacity, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>2</sub>, & stack gas flow rate. The continuous emissions monitors shall meet the performance specifications in 40 CFR 60.13; 40 CFR 52, Appendix E; 40 CFR Part 51, Appendix P; 40 CFR Part 60, Appendix B; Relative Accuracy Audit of Appendix F or equivalent specification established by mutual agreement of the District, the ARB and the EPA. The sampling, analyzing and recording cycle shall be completed every successive 15 minute period. [District Rule 1080; 40 CFR 60.49Da; 40 CFR 64; and PSD 85-04] Federally Enforceable Through Title V Permit
45. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3; 40 CFR 60.7 (b)] Federally Enforceable Through Title V Permit
46. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
47. A violation of NO<sub>x</sub> emission standards indicated by the NO<sub>x</sub> CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
48. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
49. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
50. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 05/18/06), or as certified by a third party fuel supplier. [District Rule 4352, 6.2] Federally Enforceable Through Title V Permit
51. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.3 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
52. As-fired fuel monitoring under 60.49Da(b)(3) may use the following definitions of fuel lot size: for rail delivered fuels- the quantity of each type of fuel delivered in one unit train; for truck delivered fuels - the quantity of each type of fuel delivered during one week. As-fired fuel samples for unit train deliveries may be taken as the unit train is loaded by the fuel supplier. [40 CFR 60.49Da(b)(3)] Federally Enforceable Through Title V Permit
53. The owner/operator shall continuously operate and maintain limestone injection for control of SO<sub>2</sub> emission and low bed temperature, staged combustion, and selective non-catalytic reduction for control of NO<sub>x</sub> emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
54. A minimum SO<sub>2</sub> removal efficiency of 70% (3-hour average) shall be maintained at all times. [PSD 85-04] Federally Enforceable Through Title V Permit
55. There shall be no discharge of SO<sub>2</sub> in excess of 59 lbs/hr (8-hour average) or 100 lbs/hr (3-hour average) from the stack venting from the combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
56. There shall be no discharge of NO<sub>2</sub> in excess of 42 lbs/hr or 50 ppm at 3% O<sub>2</sub> (3-hour average) from the stack venting from the fluidized bed combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
57. Total NO<sub>x</sub> emitted in any 90 day period shall not exceed 64,980 lbs (rolling 90-day total). [PSD 85-04] Federally Enforceable Through Title V Permit

58. Natural gas shall only be used as an auxiliary fuel source for the facility during startup to raise the temperature of the fluidized bed to the solid fuel ignition point before feeding any solid fuel. [PSD 85-04] Federally Enforceable Through Title V Permit
59. The owner/operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD 85-04] Federally Enforceable Through Title V Permit
60. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD 85-04] Federally Enforceable Through Title V Permit
61. The owner/operator shall submit a written report of all excess emissions to EPA 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 period of excess emissions that occurs during startups, shutdowns, and malfunctions of the fluidized bed combustion unit. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted shall also be reported; c) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or 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 the report; e) excess emissions shall be defined as any three-hour, or 90 day period during which the average emissions of NOx and/or SO2, as measured by the continuous monitoring system, exceeds the NOx and/or SO2 maximum emission limits set for each of the pollutants; f) excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purposes of the permit except for the NOx emission limit during normal facility startup; g) during a normal facility startup, excess NOx emissions shall not be considered a PSD permit violation provided the 90-day NOx emissions total (90-day rolling total) remains below 64,980 lbs. [PSD 85-04] Federally Enforceable Through Title V Permit
62. The 90 day total NOx emissions shall be calculated as a running hourly total of all NOx emissions. NOx emissions during periods when the NOx continuous emission monitor is inoperative shall be assumed to be 42 lbs/hr. [PSD 85-04] Federally Enforceable Through Title V Permit
63. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
64. 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 this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD 85-04] Federally Enforceable Through Title V Permit
65. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of 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 the conditions of this permit, 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 85-04] Federally Enforceable Through Title V Permit
66. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD 85-04] Federally Enforceable Through Title V Permit
67. All correspondence as required by this permit shall be forwarded to: a) Director, Air Division (Attn: AIR-3), EPA Region 9, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95812; c) Air Pollution Control Officer, San Joaquin Valley Air Pollution Control District, 1990 East Gettysburg Avenue, Fresno, CA, 93726-0244. [PSD 85-04] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

68. Baghouse visible emissions shall be monitored in the boiler stack using the opacity monitor installed to comply with the opacity monitoring requirements of 40 CFR 60 Subpart Da while the unit is operating. [40 CFR Part 64] Federally Enforceable Through Title V Permit
69. The baghouse visible emissions as monitored by the boiler stack opacity monitor shall not exceed 2% opacity on a 3-hour rolling average while the boiler is operating. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
70. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
71. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
72. 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 part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
73. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
74. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
75. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
76. The permittee shall maintain records of the actual SO<sub>x</sub> emissions from this unit for each 12 consecutive-month rolling period for a period of 5 years beginning on the date the unit starts operation under this permit for the purposes of demonstrating that there has not been a "significant net emissions increase" above the historic actual SO<sub>x</sub> emissions level of 266,220 lb/year reported under project N1092178. The actual net emissions increase shall be calculated in accordance with 40 CFR 51.165. If a significant net emissions increase above the actual SO<sub>x</sub> emissions level (i.e., 266,220 lb/year) occurs during any 12 consecutive months in the 5 year recordkeeping period, the permittee shall submit a permit application to modify the permit to meet the Major Modification requirements that were avoided under project N1092178; that is, "Top-Down Best Available Control Technology Analysis" for SO<sub>x</sub> emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
77. The auxiliary boiler (N-802-9) can be operated simultaneously with the CFB boiler (N-802-1) for up to 250 hours per year including periods of CFB boiler startup, shutdown, and emissions testing of the auxiliary boiler required by the EPA, CARB or the District. The permittee shall keep sufficient records to demonstrate compliance with the requirements of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
78. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit

**Appendix III  
Permit Application**

# San Joaquin Valley Air Pollution Control District

www.valleyair.org

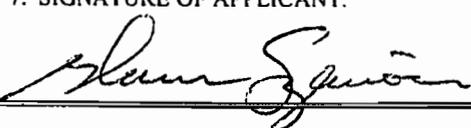
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Permits Svc  
SJVAPCD

## Permit Application For:

ADMINISTRATIVE AMENDMENT     MINOR MODIFICATION    [ ] SIGNIFICANT MODIFICATION

1. PERMIT TO BE ISSUED TO: <b>Air Products Manufacturing Corporation</b>	
2. MAILING ADDRESS: STREET/P.O. BOX: <b>1010 Zephyr Street</b> CITY: <b>Stockton</b> STATE: <b>CA</b> 9-DIGIT ZIP CODE: <b>95206</b>	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: <b>1010 Zephyr Street</b> CITY: <b>Stockton</b> 1/4 SECTION _____ TOWNSHIP _____ RANGE _____	INSTALLATION DATE: <b>8 November 2010</b>
4. GENERAL NATURE OF BUSINESS: <b>Production of steam and electricity</b>	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary)  <b>APMC - Stockton CoGen is required by the new Federal Green House Gas (GHG) Mandatory Reporting Regulation, 40 CFR Part 86, to report GHG emissions from the CFB boiler using a CO2 analyzer incorporated into the existing CEMS system. This modification will require the installation of a new dilution extractive CO2 analyzer, TML20M as well as an upgrade to a new stack flow monitor, DP-75 Mark 2 Gas Flow Monitor. APMC - Stockton CoGen is in possession of District approved ATC N-802-1-18 for this project (project # N-1102970). We request that the Title V permit N-802 be modified to incorporate this ATC.</b>	
6. TYPE OR PRINT NAME OF APPLICANT: <b>Glenn T. Sizemore</b>	TITLE OF APPLICANT: <b>Plant Manager</b>
7. SIGNATURE OF APPLICANT: 	DATE: <b>8/18/10</b> PHONE: (209) 983-0391 FAX: (209) 983-1719 EMAIL: sizemogt@apci.com

**For APCD Use Only:**

DATE STAMP	FILING FEE RECEIVED: \$ <b>0</b> CHECK#: <b>—</b> DATE PAID: <b>—</b> PROJECT NO: <b>N-1103320</b> FACILITY ID: <b>N-802</b>
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San Joaquin Valley  
Unified Air Pollution Control District

**TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM**

**I. TYPE OF PERMIT ACTION (Check appropriate box)**

- SIGNIFICANT PERMIT MODIFICATION                       ADMINISTRATIVE AMENDMENT  
 MINOR PERMIT MODIFICATION

COMPANY NAME: Air products Manufacturing Corporation	FACILITY ID: N - 802
1. Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: Air Products Manufacturing Corporation	
3. Agent to the Owner: Air Products Manufacturing Corporation	

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

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

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

*Glenn T. Sizemore*

Signature of Responsible Official

8/18/10

Date

Glenn T. Sizemore

Name of Responsible Official (please print)

Plant Manager

Title of Responsible Official (please print)

**Appendix IV  
Emissions Change**

## Emissions Change

There is no increase in facility emissions as a result of this project.

Appendix V  
Title V Permit to Operate N-802-1-17

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-802-1-17

**EXPIRATION DATE:** 10/31/2009

**EQUIPMENT DESCRIPTION:**

COAL FIRED CIRCULATING FLUIDIZED BED BOILER (CAPACITY 550,000 LBS/HR STEAM) UTILIZING LIMESTONE INJECTION FOR SOX CONTROL, A THERMAL DENOX SYSTEM FOR NOX CONTROL, AND TWO CYCLONES VENTED TO A BAGHOUSE FOR PARTICULATE CONTROL

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be discharged into the atmosphere that exhibit greater than 20% opacity (6 minute average), except for one 6 minute period per hour of not more than 27% opacity. [40 CFR 60.42Da(b)] Federally Enforceable Through Title V Permit
2. The flue gas from the combustor shall be vented through a baghouse at all times (including soot blowing periods). [District NSR Rule] Federally Enforceable Through Title V Permit
3. The baghouse filtering media shall be fiberglass with a teflon B coating, or any other material that provides as good or better collection efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
4. 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] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The boiler may be fired on Utah Equivalent coal, Canadian coal, fluid coke, tire derived fuel, delayed coke, or agriculturally derived biomass. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The amount of tire derived fuel used in the boiler shall not exceed 11% by weight of the total fuel used during any 48 hour period and not exceed 20% by weight of the total fuel used during any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The annual heat input to the boiler from agriculturally derived biomass shall not exceed 50% of the boiler's heat input rating. [District Rule 2201] Federally Enforceable Through Title V Permit
10. An ultimate analysis for each stock of fuel, except for tire derived fuel, received shall be maintained on the premises at all times and shall be made available for District inspection upon request. The analysis shall include the heating value, and the Sulfur and Nitrogen content. Stock of fuel shall be defined as follows: rail delivered fuels - fuel delivered in one unit train; truck delivered fuels - fuel delivered during one week. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Natural gas fired burners shall be used during start-up to reach solid fuel ignition temperature throughout the combustor before feeding any solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The VOC emissions shall not exceed 1.86 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit

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

Facility Name: AIR PRODUCTS MANUFACTURING CORPORATION

Location: 1010 ZEPHYR ST, STOCKTON, CA 95208

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13. The PM10 emissions shall not exceed 9.82 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The NOx emissions shall not exceed 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The NOx concentration limitation of 39 ppmv(wet) @ 13.6% CO2 (49.4 ppmv(dry) @ 3% O2) shall not apply during start-up days. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The NOx emissions shall not exceed 54,180 pounds during the first calendar quarter, 54,782 pounds during the second calendar quarter, 55,384 pounds during the third calendar quarter, and 55,384 pounds during the fourth calendar quarter. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The cumulative NOx emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9). [District NSR Rule] Federally Enforceable Through Title V Permit
18. A record of the daily NOx emissions from the fluidized bed boiler shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
19. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler and the 178 MMBtu/hr boiler (N-802-9) shall be updated daily and kept on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The CO emissions shall not exceed 38.00 pounds per hour. [District NSR Rule] Federally Enforceable Through Title V Permit
21. The SOx emissions shall be the more restrictive of 59.17 pounds per hour as determined by an eight hour rolling average or a SOx removal efficiency of no less than 70% by weight using a three hour averaging time. [District NSR Rule] Federally Enforceable Through Title V Permit
22. The bottom ash from the bed and the fly ash from the economizer and baghouse shall be transferred to the ash silo via a totally air tight pneumatic transfer system. [District NSR Rule] Federally Enforceable Through Title V Permit
23. This boiler shall be in compliance with 40 CFR 60, Subparts A and Da: Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978. [PSD 85-04, District Rule 4001, and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit
24. Source testing for NOx, CO, VOC, SOx, and PM10 emissions shall be conducted on an annual basis. [District Rule 4352, 6.3] Federally Enforceable Through Title V Permit
25. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Hourly emission rates for NOx, CO, VOC, SOx, and PM10 while source testing shall be calculated using the arithmetic mean of the test runs as outlined in District Rule 1081-"Source Sampling" section 6.0 (as amended 12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. Source testing to measure concentrations of oxides of nitrogen (as NO2) shall be conducted using EPA method 7E or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
29. Source testing to measure concentrations of carbon monoxide (CO) shall be conducted using EPA method 10 or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
30. Source testing to measure the stack gas oxygen (O2) shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
31. Source testing to measure concentrations of volatile organic compounds (VOC) shall be conducted using EPA method 25, CARB method 100, SCAQMD method 25.3, or EPA method 18. [District Rule 2520, 9.3.1] Federally Enforceable Through Title V Permit

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

32. Source testing to measure concentrations of oxides of sulfur (SOx) as SO2 shall be conducted using EPA methods 6, 8, CARB method 100, or SCAQMD 6.1. [40 CFR 60.46, (b)] Federally Enforceable Through Title V Permit
33. Source testing to measure concentrations of PM10 shall be conducted using EPA method 201 and 202, EPA method 201a and 202, or CARB method 501 and 5, or SCAQMD Method 5.3 and 6.1. [40 CFR Subpart 51, Appendix M] Federally Enforceable Through Title V Permit
34. Source testing to measure stack gas velocity and volumetric flow rate shall be conducted using EPA method 2 or CARB method 2. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
35. Source testing to measure the stack gas moisture content shall be conducted using EPA method 4 or CARB method 4. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
36. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
37. Sulfur compound emission shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
38. Particulate Matter emission shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
39. NOx emissions shall not exceed 0.20 lb/MMBtu of heat input. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
40. CO emissions at dry stack gas conditions shall not exceed 400 ppmv @ 3% O2. [District Rule 4352, 5.1] Federally Enforceable Through Title V Permit
41. The following pollutant emission levels shall not be exceeded: 200 pounds per hour of sulfur compounds, calculated as sulfur dioxide (SO2); 140 pounds per hour of nitrogen oxides, calculated as nitrogen dioxide (NO2); and ten (10) pounds per hour of PM. [District Rule 4301, 5.2] Federally Enforceable Through Title V Permit
42. The exhaust stack shall be equipped with continuous monitors/recorders for opacity, SO2, NOx, O2, & stack gas flow rate. The continuous emissions monitors shall meet the performance specifications in 40 CFR 60.13; 40 CFR 52, Appendix E; 40 CFR Part 51, Appendix P; 40 CFR Part 60, Appendix B; Relative Accuracy Audit of Appendix F or equivalent specification established by mutual agreement of the District, the ARB and the EPA. The sampling, analyzing and recording cycle shall be completed every successive 15 minute period. [District Rule 1080; 40 CFR 60.49Da; 40 CFR 64; and PSD 85-04] Federally Enforceable Through Title V Permit
43. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3; 40 CFR 60.7 (b)] Federally Enforceable Through Title V Permit
44. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
45. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
46. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit

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47. Records of dust collector maintenance, inspections, and repairs shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
48. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 05/18/06), or as certified by a third party fuel supplier. [District Rule 4352, 6.2] Federally Enforceable Through Title V Permit
49. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 (as amended 12/17/92) using the equation  $E=3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E=17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
50. As-fired fuel monitoring under 60.49Da(b)(3) may use the following definitions of fuel lot size: for rail delivered fuels- the quantity of each type of fuel delivered in one unit train; for truck delivered fuels - the quantity of each type of fuel delivered during one week. As-fired fuel samples for unit train deliveries may be taken as the unit train is loaded by the fuel supplier. [40 CFR 60.49Da(b)(3)] Federally Enforceable Through Title V Permit
51. The owner/operator shall continuously operate and maintain limestone injection for control of SO<sub>2</sub> emission and low bed temperature, staged combustion, and selective non-catalytic reduction for control of NO<sub>x</sub> emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
52. A minimum SO<sub>2</sub> removal efficiency of 70% (3-hour average) shall be maintained at all times. [PSD 85-04] Federally Enforceable Through Title V Permit
53. There shall be no discharge of SO<sub>2</sub> in excess of 59 lbs/hr (8-hour average) or 100 lbs/hr (3-hour average) from the stack venting from the combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
54. There shall be no discharge of NO<sub>2</sub> in excess of 42 lbs/hr or 50 ppm at 3% O<sub>2</sub> (3-hour average) from the stack venting from the fluidized bed combustion unit. [PSD 85-04] Federally Enforceable Through Title V Permit
55. Total NO<sub>x</sub> emitted in any 90 day period shall not exceed 64,980 lbs (rolling 90-day total). [PSD 85-04] Federally Enforceable Through Title V Permit
56. Natural gas shall only be used as an auxiliary fuel source for the facility during startup to raise the temperature of the fluidized bed to the solid fuel ignition point before feeding any solid fuel. [PSD 85-04] Federally Enforceable Through Title V Permit
57. The owner/operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD 85-04] Federally Enforceable Through Title V Permit
58. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD 85-04] Federally Enforceable Through Title V Permit

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Location: 1010 ZEPHYR ST, STOCKTON, CA 95208

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59. The owner/operator shall submit a written report of all excess emissions to EPA 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 period of excess emissions that occurs during startups, shutdowns, and malfunctions of the fluidized bed combustion unit. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted shall also be reported; c) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or 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 the report; e) excess emissions shall be defined as any three-hour, or 90 day period during which the average emissions of NOx and/or SO2, as measured by the continuous monitoring system, exceeds the NOx and/or SO2 maximum emission limits set for each of the pollutants; f) excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purposes of the permit except for the NOx emission limit during normal facility startup; g) during a normal facility startup, excess NOx emissions shall not be considered a PSD permit violation provided the 90-day NOx emissions total (90-day rolling total) remains below 64,980 lbs. [PSD 85-04] Federally Enforceable Through Title V Permit
60. The 90 day total NOx emissions shall be calculated as a running hourly total of all NOx emissions. NOx emissions during periods when the NOx continuous emission monitor is inoperative shall be assumed to be 42 lbs/hr. [PSD 85-04] Federally Enforceable Through Title V Permit
61. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
62. 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 this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD 85-04] Federally Enforceable Through Title V Permit
63. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of 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 the conditions of this permit, 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 85-04] Federally Enforceable Through Title V Permit
64. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD 85-04] Federally Enforceable Through Title V Permit
65. All correspondence as required by this permit shall be forwarded to: a) Director, Air Division (Attn: AIR-3), EPA Region 9, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95812; c) Air Pollution Control Officer, San Joaquin Valley Air Pollution Control District, 1990 East Gettysburg Avenue, Fresno, CA, 93726-0244. [PSD 85-04] Federally Enforceable Through Title V Permit
66. Baghouse visible emissions shall be monitored in the boiler stack using the opacity monitor installed to comply with the opacity monitoring requirements of 40 CFR 60 Subpart Da while the unit is operating. [40 CFR Part 64] Federally Enforceable Through Title V Permit
67. The baghouse visible emissions as monitored by the boiler stack opacity monitor shall not exceed 2% opacity on a 3-hour rolling average while the boiler is operating. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit
68. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit

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69. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
70. 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 part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
71. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
72. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
73. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
74. The permittee shall maintain records of the actual SOx emissions from this unit for each 12 consecutive-month rolling period for a period of 5 years beginning on the date the unit starts operation under this permit for the purposes of demonstrating that there has not been a "significant net emissions increase" above the historic actual SOx emissions level of 266,220 lb/year reported under project N1092178. The actual net emissions increase shall be calculated in accordance with 40 CFR 51.165. If a significant net emissions increase above the actual SOx emissions level (i.e., 266,220 lb/year) occurs during any 12 consecutive months in the 5 year recordkeeping period, the permittee shall submit a permit application to modify the permit to meet the Major Modification requirements that were avoided under project N1092178; that is, "Top-Down Best Available Control Technology Analysis" for SOx emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
75. The auxiliary boiler (N-802-9) can be operated simultaneously with the CFB boiler (N-802-1) for up to 250 hours per year including periods of CFB boiler startup, shutdown, and emissions testing of the auxiliary boiler required by the EPA, CARB or the District. The permittee shall keep sufficient records to demonstrate compliance with the requirements of this condition. [District Rule 2201] Federally Enforceable Through Title V Permit
76. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit

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