



DEC 21 2009

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

**Re: Notice of Final Decision - ATC / Certificate of Conformity
Facility # N-802
Project # N-1092178**

Dear Mr. Sizemore:

The Air Pollution Control Officer has issued Authority to Construct permits to Air Products Manufacturing Corporation for its cogeneration plant at 1010 Zephyr Street, Stockton, California, California. The applicant has proposed to include a condition that limits simultaneous operation of permit units N-802-1 (CFB boiler) and N-802-9 (auxiliary boiler) to 250 hours per year for the required source test and startup of the CFB boiler, allow auxiliary boiler to operate without restriction on hourly or annual heat input rate when CFB boiler is not operating, lower the permitted NOx emissions and remove fuel oil burning capability for the auxiliary boiler.

Enclosed are copies of the Authority to Construct permits and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue this Authority to Construct with Certificate of Conformity was published on November 11, 2009. The District's analysis of the proposal was also sent to US EPA Region IX on November 11, 2009. No comments were received following the District's preliminary decision on this project.

Also enclosed is an invoice for the engineering evaluation fees pursuant to District Rule 3010. Please remit the amount owed, along with a copy of the attached invoice, within 30 days.

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/cm

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
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



DEC 21 2009

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

**Re: Notice of Final Decision - ATC / Certificate of Conformity
Facility # N-802
Project # N-1092178**

Dear Mr. Rios:

The Air Pollution Control Officer has issued Authority to Construct permits to Air Products Manufacturing Corporation for its cogeneration plant at 1010 Zephyr Street, Stockton, California, California. The applicant has proposed to include a condition that limits simultaneous operation of permit units N-802-1 (CFB boiler) and N-802-9 (auxiliary boiler) to 250 hours per year for the required source test and startup of the CFB boiler, allow auxiliary boiler to operate without restriction on hourly or annual heat input rate when CFB boiler is not operating, lower the permitted NOx emissions and remove fuel oil burning capability for the auxiliary boiler.

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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.

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DEC 21 2009

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

**Re: Notice of Final Decision - ATC / Certificate of Conformity
Facility # N-802
Project # N-1092178**

Dear Mr. Tollstrup:

The Air Pollution Control Officer has issued Authority to Construct permits to Air Products Manufacturing Corporation for its cogeneration plant at 1010 Zephyr Street, Stockton, California, California. The applicant has proposed to include a condition that limits simultaneous operation of permit units N-802-1 (CFB boiler) and N-802-9 (auxiliary boiler) to 250 hours per year for the required source test and startup of the CFB boiler, allow auxiliary boiler to operate without restriction on hourly or annual heat input rate when CFB boiler is not operating, lower the permitted NOx emissions and remove fuel oil burning capability for the auxiliary boiler.

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David Warner
Director of Permit Services

DW: JK/cm

Enclosures

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Stockton Record

**NOTICE OF FINAL DECISION
FOR THE ISSUANCE OF AUTHORITY
TO CONSTRUCT PERMITS**

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Authority to Construct permits to Air Products Manufacturing Corporation for its cogeneration plant at 1010 Zephyr Street, Stockton, California, California. The applicant has proposed to include a condition that limits simultaneous operation of permit units N-802-1 (CFB boiler) and N-802-9 (auxiliary boiler) to 250 hours per year for the required source test and startup of the CFB boiler, allow auxiliary boiler to operate without restriction on hourly or annual heat input rate when CFB boiler is not operating, lower the permitted NOx emissions and remove fuel oil burning capability for the auxiliary boiler.

No comments were received following the District's preliminary decision on this project.

The application review for Project #N-1092178, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 4800 ENTERPRISE WAY, MODESTO, CA 95356-8718.



San Joaquin Valley
Unified Air Pollution
Control District

Due Date
2/16/2010

Amount Due
\$ 6,325.00

Amount Enclosed

ATCFEE N1092178
802 N77156 12/14/2009

RETURN THIS TOP PORTION ONLY, WITH REMITTANCE TO:

AIR PRODUCTS MANUFACTURING CORPORATION
1010 ZEPHYR ST
STOCKTON, CA 95206

SJVAPCD
4800 Enterprise Way
Modesto, CA 95356-8718

Thank You!



San Joaquin Valley
Unified Air Pollution
Control District

SJVAPCD Tax ID: 77-0262563

AIR PRODUCTS MANUFACTURING CORPORATION
1010 ZEPHYR ST
STOCKTON, CA 95206

Facility ID
N802

Invoice Date
12/14/2009

Invoice Number
N77156

Invoice Type
Project: N1092178

PROJECT NUMBER: 1092178

APPLICATION FILING FEES	\$ 130.00
ENGINEERING TIME FEES	\$ 6,120.80
MISCELLANEOUS PROJECT FEES	\$ 139.20
TOTAL FEES	\$ 6,390.00
LESS PREVIOUSLY PAID PROJECT FEES APPLIED TO THIS INVOICE	(\$ 65.00)
PROJECT FEES DUE (Enclosed is a detailed statement outlining the fees for each item.)	\$ 6,325.00

Late Payment (see Rule 3010, Section 11.0 Late Fees)	
Postmarked	Total Due
After 2/16/2010 through 2/26/2010	\$ 6,957.50
After 2/26/2010	\$ 9,487.50
After 3/18/2010	Permits To Operate MAY BE SUSPENDED

San Joaquin Valley Air Pollution Control District
4800 Enterprise Way, Modesto, CA 95356-8718, (209) 557-6400, Fax (209) 557-6475

Invoice Detail

Facility ID: N802

AIR PRODUCTS MANUFACTURING CORPORATION
1010 ZEPHYR ST
STOCKTON, CA 95206Invoice Nbr: N77156
Invoice Date: 12/14/2009
Page: 1**Application Filing Fees**

Project Nbr	Permit Number	Description	Application Fee
N1092178	N-802-1-17	MODIFICATION OF: COAL FIRED CIRCULATING FLUIDIZED BED (CFB) 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: INCLUDE A CONDITION LIMITING SIMULTANEOUS OPERATION OF PERMIT UNITS N-802-1 AND N-802-9 TO 250 HOURS/YEAR	\$ 65.00
N1092178	N-802-9-11	MODIFICATION OF: 178 MMBTU/HR ZURN MODEL 22M KEYSTONE AUXILIARY BOILER WITH A TODD MODEL RMB ULTRA LOW NOX BURNER: ALLOW AUXILIARY BOILER TO OPERATE WITHOUT RESTRICTION ON HOURLY OR ANNUAL HEAT INPUT RATE WHEN BOILER (N-802-1) IS NOT OPERATION; ALLOW SIMULTANEOUS OPERATION OF THE AUXILIARY BOILER AND THE BOILER (N-802-1) FOR A PERIOD OF 250 HOURS/YEAR WITHOUT RESTRICTION ON HOURLY HEAT INPUT RATE FOR THE AUXILIARY BOILER; LOWER THE PERMITTED NOX EMISSIONS LEVEL; REMOVE FUEL OIL #2 BURNING CAPABILITY	\$ 65.00
Total Application Filing Fees:			\$ 130.00

Engineering Time Fees

Project Nbr	Quantity	Rate	Description	Fee
N1092178	17.9 hours	\$ 132.00 /h	After-Hours Engineering Time(OverTime)	\$ 2,362.80
			Less Credit For Application Filing Fees	(\$ 130.00)
			After-Hours Engineering Time(OverTime) SubTotal	\$ 2,232.80
N1092178	43.2 hours	\$ 90.00 /h	Standard Engineering Time	\$ 3,888.00
Total Engineering Time Fees:			\$ 6,120.80	

Miscellaneous Project Fees

Project Nbr	Description	Fee
N1092178	Newspaper Public Notice (The Record)	\$ 139.20
Total Miscellaneous Project Fees:		\$ 139.20



AUTHORITY TO CONSTRUCT

PERMIT NO: N-802-1-17

ISSUANCE DATE: 12/14/2009

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: COAL FIRED CIRCULATING FLUIDIZED BED (CFB) 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: INCLUDE A CONDITION LIMITING SIMULTANEOUS OPERATION OF PERMIT UNITS N-802-1 AND N-802-9 TO 250 HOURS/YEAR

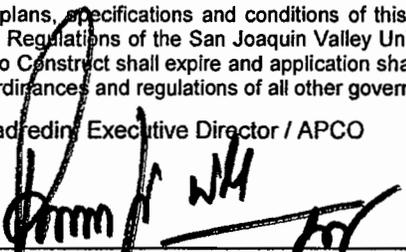
CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
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

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 Sadredini Executive Director / APCO


DAVID WARNER, Director of Permit Services

N-802-1-17 : Dec 14 2009 2:37PM - KAHLONJ : Joint Inspection NOT Required

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
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

CONDITIONS CONTINUE ON NEXT PAGE

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
26. Source testing for NO_x, CO, VOC, SO_x, and PM₁₀ 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_x, CO, VOC, SO_x, 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
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 NO₂) 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 (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
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_x) 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
35. 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
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_x 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% O₂. [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 (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

CONDITIONS CONTINUE ON NEXT PAGE

44. The exhaust stack shall be equipped with continuous monitors/recorders for opacity, SO₂, NO_x, 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
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_x emission standards indicated by the NO_x 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 $E=17.31 \times P^{0.16}$ 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 SO₂ emission and low bed temperature, staged combustion, and selective non-catalytic reduction for control of NO_x emissions. [PSD 85-04] Federally Enforceable Through Title V Permit
54. A minimum SO₂ 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 SO₂ 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 NO₂ in excess of 42 lbs/hr or 50 ppm at 3% O₂ (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_x 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

CONDITIONS CONTINUE ON NEXT PAGE

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 NO_x and/or SO₂, as measured by the continuous monitoring system, exceeds the NO_x 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 NO_x emission limit during normal facility startup; g) during a normal facility startup, excess NO_x emissions shall not be considered a PSD permit violation provided the 90-day NO_x 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 NO_x emissions shall be calculated as a running hourly total of all NO_x emissions. NO_x emissions during periods when the NO_x 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_x 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_x 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_x 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_x 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



AUTHORITY TO CONSTRUCT

PERMIT NO: N-802-9-11

ISSUANCE DATE: 12/14/2009

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: 178 MMBTU/HR ZURN MODEL 22M KEYSTONE AUXILIARY BOILER WITH A TODD MODEL RMB ULTRA LOW NOX BURNER; ALLOW AUXILIARY BOILER TO OPERATE WITHOUT RESTRICTION ON HOURLY OR ANNUAL HEAT INPUT RATE WHEN BOILER (N-802-1) IS NOT OPERATION; ALLOW SIMULTANEOUS OPERATION OF THE AUXILIARY BOILER AND THE BOILER (N-802-1) FOR A PERIOD OF 250 HOURS/YEAR WITHOUT RESTRICTION ON HOURLY HEAT INPUT RATE FOR THE AUXILIARY BOILER; LOWER THE PERMITTED NOX EMISSIONS LEVEL; REMOVE FUEL OIL #2 BURNING CAPABILITY

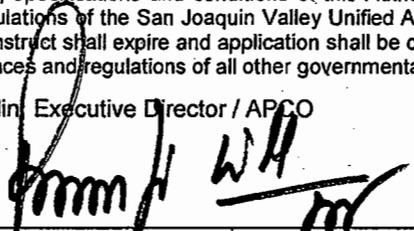
CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, or 0.1 grain/dscf calculated to 12% CO₂ or 10 lb/hr. [District Rules 4201 and 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
5. 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] 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 Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

N-802-9-11 : Dec 14 2009 2:31 PM -- KAH/LONJ : Joint Inspection NOT Required

6. A fuel flow meter dedicated to this boiler shall be utilized to monitor the quantity of natural gas fuel burned by the boiler on an hourly basis whenever the boiler is operating. Monitoring shall not be required if the unit is not in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
7. This boiler shall be fired exclusively on PUC-regulated natural gas fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
8. NO_x emissions shall not exceed 7.0 ppmvd @ 3% O₂ referenced as NO₂. [District Rules 2201, 4301, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
9. CO emissions shall not exceed 50 ppmvd @ 3% O₂. [District Rule 2201] Federally Enforceable Through Title V Permit
10. VOC emissions shall not exceed 3 ppmvd @ 3% O₂ referenced as methane. [District Rule 2201] Federally Enforceable Through Title V Permit
11. PM₁₀ emissions shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
12. SO_x emissions shall not exceed 0.0029 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
13. All emission measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Compliance determinations shall be conducted with the unit operating at conditions representative of normal operations. [District Rules 4305, 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
14. The combined NO_x emissions from this boiler and the fluidized bed boiler (N-802-1) shall not exceed 42 lb/hr (3-hour rolling average). [PSD] Federally Enforceable Through Title V Permit
15. The combined NO_x emissions from this boiler and the fluidized bed boiler (N-802-1) in any 90-day period shall not exceed 64,980 lb (running 90-day total). [PSD] Federally Enforceable Through Title V Permit
16. The cumulative NO_x emissions shall not exceed 219,730 pounds during any one year from both the fluidized bed boiler (N-802-1) and this boiler. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Operator shall ensure that all required source testing conforms with the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source testing for NO_x and CO emissions shall be conducted as required by Rule 4306 - "Boilers, Steam Generators, and Process Heaters - Phase 3". [District Rules 4306 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
19. Source tests shall be performed not less than once every 12 months. Upon demonstrating compliance on two consecutive compliance source tests, the following source test may be deferred for up to 36 months. If a test shows noncompliance, the source shall return to annual source testing until compliance is again shown for two consecutive years. [District Rules 4305, 4306, 4320 and 4351] Federally Enforceable Through Title V Permit
20. During the 36-month source testing interval, the owner or operator shall have this unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
21. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year. This unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
22. 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
23. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

24. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Source testing to measure concentrations of oxides of nitrogen (as NO₂) shall be conducted using EPA method 7E or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
27. Source testing to measure concentrations of carbon monoxide (as CO) shall be conducted using EPA method 10 or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
28. Source testing to measure the stack gas oxygen shall be conducted using EPA methods 3 or 3A, or CARB method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
29. The permittee shall either: a.) perform fuel analysis to determine the following parameters: methane content (%), heating value (Btu/dscf), and sulfur content (gr-S/100 dscf); or b.) obtain and maintain a copy of valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts that contains methane content (%), heating value (Btu/dscf), and sulfur content (gr-S/100 dscf) to verify compliance with the SO_x emission limits in this permit. If the permittee decide to conduct fuel analysis, the fuel sample shall be collected within 60 days of startup under this permit and weekly thereafter. Upon successful compliance demonstration on eight consecutive weeks testing, the monitoring frequency shall be every quarter. If the result of any quarterly monitoring fails to demonstrate compliance with SO_x emissions, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks. [District Rules 2201 and 4320, 40 CFR 60.45b] Federally Enforceable Through Title V Permit
30. The flue gas recirculation rate shall be determined at least on an hourly basis by measuring the stack O₂% by volume (O_s), and windbox O₂% by volume (O_w) using the following equation: $FGR \text{ rate} = \{O_w - 20.9\} / \{O_s - 20.9\} \times 100\%$. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
31. The minimum flue gas recirculation rate shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be no lower than the minimum flue gas recirculation rate with which compliance with applicable NO_x and CO emission limits has been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
32. If the flue gas recirculation rate is less than the normal range/level, the permittee shall return the flue gas recirculation rate to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation rate is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation rate. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
33. The permittee shall maintain records of the date and time of oxygen concentration measurements, the measured oxygen concentrations, the calculated flue gas recirculation rate, and the firing rate at the time of the oxygen concentration measurements. The records shall also include a description of any corrective action taken to maintain the flue gas recirculation rate within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
34. 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

CONDITIONS CONTINUE ON NEXT PAGE

35. The auxiliary boiler may operate any time that the CFB boiler is not operating. [District Rule 2201] Federally Enforceable Through Title V Permit
36. When in simultaneous operation with the CFB boiler (N-802-1), the auxiliary boiler's firing rate shall not exceed 36.6 MMBtu/hr except during: 1.) periods of CFB boiler startup or shutdown, or 2.) a period of less than 10 hours duration to conduct any emissions testing for the auxiliary boiler required by the EPA, the California Air Resources Board, or the District. For the purposes of this condition, CFB boiler startup and shutdown periods shall be defined as follows: A.) Following CFB boiler repairs that require curing of the refractory material, the startup period shall begin upon initiation of continuous fuel flow to the CFB boiler and shall end after 40 hours or when the generator output reaches 45 MW, whichever comes first. B.) For all startups other than those described in item A above, the startup period shall begin upon initiation of continuous fuel flow to the boiler and shall not last more than 16 hours. [PSD] Federally Enforceable Through Title V Permit
37. The owner or operator shall record and maintain records of the hours of operation and the amounts and types of fuel fired for each occurrence. [PSD] Federally Enforceable Through Title V Permit
38. Hourly NOx emissions shall be calculated as the product of the hourly heat input and the maximum allowable NOx emissions rate. [PSD] Federally Enforceable Through Title V Permit
39. 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] Federally Enforceable Through Title V Permit
40. A record of the daily NOx emissions shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
41. A record of the cumulative NOx emissions for the calendar year from both the fluidized bed boiler (N-802-1) and this boiler shall be updated daily and kept on the premises at all times. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
42. Daily records of the natural gas usage shall be kept. [District Rules 4305, 6.0; 4306, 6.0; and 2520, 9.4.2] Federally Enforceable Through Title V Permit
43. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070; 2520, 9.4.2; 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
44. This boiler shall be in compliance with Title 40, Code of Federal Regulations, Part 60, Subparts A and Db. The owner or operator shall comply with the terms of the plan submitted under the provisions of §60.48b(g)(2); specifically: i.) The owner or operator shall demonstrate compliance with the applicable standard for nitrogen oxides by hourly monitoring the flue gas recirculation rate as established by this unit's source test, and ii.) The owner or operator shall maintain records of the auxiliary boiler's fuel usage for at least five years and make these records available to EPA upon request. [40 CFR Part 60, Subpart Db and PSD] Federally Enforceable Through Title V Permit
45. 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] Federally Enforceable Through Title V Permit
46. 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] Federally Enforceable Through Title V Permit
47. The owner and operator shall operate the 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] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

48. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244. [PSD] Federally Enforceable Through Title V Permit