



JUN 06 2014

Mr. Jeff Curtin
CertainTeed Corporation
17775 Avenue 23 1/2
Chowchilla, CA 93610

**Re: Notice of Minor Title V Permit Modification
District Facility # C-261
Project # C-1141522**

Dear Mr. Curtin:

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 ATC C-261-2-26 into the Title V operating permit. The proposed modifications consist of revising the PM alternate monitoring requirements to require monitoring of the ESP's average total power (secondary voltage and secondary current), and specifying the VOC alternate monitoring measurements shall be performed once per hour.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued ATC C-261-2-26, 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.

If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,


Arnaud Marjollet
Director of Permit Services

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
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Modesto, CA 95356-8718
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TITLE V APPLICATION REVIEW

Minor Modification
Project #: C-1141522

Engineer: Derek Fukuda
Date: June 2, 2014

Facility Number: C-261
Facility Name: CertainTeed Corporation
Mailing Address: 17775 Avenue 23 1/2
Chowchilla, CA 93610

Contact Name: Jeff Curtin
Phone: (559) 665-3321

Responsible Official: Mathew Prue
Title: Plant Manager

I. PROPOSAL

CertainTeed Corporation is proposing a Title V minor permit modification to incorporate the recently issued C-261-2-26 into the Title V operating permit. The modifications proposed in ATC C-261-2-26 are listed below:

- Revise particulate matter alternate monitoring requirements currently based upon electrostatic precipitator secondary voltage to be based upon electrostatic precipitator average total power (secondary voltage and secondary current).
- Specify VOC alternate monitoring measurements to be performed once per hour consistent with PM₁₀ alternate monitoring measurement frequency.

The purpose of this evaluation 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 the proposed revisions.

II. FACILITY LOCATION

17775 Avenue 23 1/2
Chowchilla, CA 93610

III. EQUIPMENT DESCRIPTION

C-261-2-27: 96 MMBTU/HR, 325 METRIC TONS/DAY GLASS MELTING OXY-FUEL FURNACE WITH 12 (8 MMBTU/HR EACH) COMBUSTION TEC. FLAT FLAME BURNERS AND A DRY ELECTROSTATIC PRECIPITATOR (DESP)

IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

V. APPLICABLE REQUIREMENTS

District Rule 2520, Federally Mandated Operating Permits (Adopted June 21, 2001)

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

CertainTeed Corporation is proposing to revise the PM alternate monitoring requirements and VOC alternate monitoring frequency on their glass furnace.

The current permit lists a dry EP secondary voltage limit of 1,800 V. This value is not correct and was proposed in error due to the way voltage is read by the facility continuous monitoring system. This system reports voltage readings in units of volts (x10). So a reading of 1,800 should be read as 1,800 x 10 = 18,000 Volts or 18 kV.

Originally, the facility proposed to amend the furnace permit to include a dry EP minimum secondary voltage of 18 kV and to allow compliance with this limit to be demonstrated using the four-field average. The facility also proposed that compliance with this minimum secondary voltage requirement be determined using a block 24-hour average voltage consistent with the Rule 4354 PM₁₀ parametric monitoring averaging period.

The District has determined power is a better indicator of the performance of the EP. When the secondary voltage drops, less particulate is charged and collected. However, the secondary voltage can remain high but fail to perform its function if the collection plates are not cleaned, or rapped, appropriately. If the collection plates are not cleaned, the current drops. Since the power is a product of the voltage and current, monitoring the power input will provide a reasonable assurance that the EP is functioning properly. In addition, Rule 4354 Section 6.6.2 states "An approved alternate emission monitoring method shall be

capable of determining the furnace emissions on an hourly basis and shall comply with the following requirements: 6.6.2.1 40 CFR 64 (Compliance Assurance Monitoring); and 6.6.2.2 40 CFR 60.13 (Monitoring Requirements)". Therefore, all parametric monitoring shall be monitored and recorded on an hourly basis.

C-261-2-27:

- Permit conditions 1 through 16 on the current Permit to Operate (PTO) are included as permit conditions 1 through 16 on the proposed PTO.
- Permit conditions 17 through 19 on the proposed PTO were added to ensure compliance with source testing requirements in District Rule 4354.
- Permit conditions 17 through 36 on the current PTO are included as permit conditions 20 through 39 on the proposed PTO.
- Permit condition 37 on the current PTO states the existing monitoring frequency requirement for the VOC Continuous Parametric Monitoring System. As previously discussed in this evaluation, this condition has been modified. The modified condition is listed as permit condition 40 on the proposed PTO.
- Permit conditions 38 through 44 on the current PTO are included as permit conditions 41 through 47 on the proposed PTO.
- Permit conditions 45 through 47 on the current PTO state the existing requirements for the PM Continuous Parametric Monitoring System. As previously discussed in this evaluation, these conditions have been modified. The modified conditions are listed as permit conditions 48 through 52 on the proposed PTO.
- Permit conditions 48 through 68 on the current PTO are included as permit conditions 53 through 73 on the proposed PTO.
- Permit condition 74 on the proposed PTO was added to ensure compliance with idling, shutdown and startup notification requirements in District Rule 4354.
- Permit condition 75 on the proposed PTO was added to state the emission calculation methodology flexibility in District Rule 4354.
- Permit conditions 69 through 93 on the current PTO are included as permit conditions 76 through 100 on the proposed PTO.

VII. COMPLIANCE

In accordance with Rule 2520, 3.20, these modifications:

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;
2. The source's suggested draft permit; 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.

VIII. ATTACHMENTS

- A. Proposed Modified Title V Operating Permit No. C-261-2-27
- B. Authority to Construct No. C-261-2-26
- C. Application
- D. Previous Title V Operating Permit No. C-261-2-24

ATTACHMENT A

Proposed Modified Title V Operating Permit No.
(C-261-2-27)

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-261-2-27

EXPIRATION DATE: 05/31/2016

EQUIPMENT DESCRIPTION:

96 MMBTU/HR, 325 METRIC TONS/DAY GLASS MELTING OXY-FUEL FURNACE WITH 12 (8 MMBTU/HR EACH) COMBUSTION TEC. FLAT FLAME BURNERS AND A DRY ELECTROSTATIC PRECIPITATOR (DESP)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
2. The glass melting furnace shall produce no more than either of the following limits: 325 metric tons/day or 118,625 metric tons/year. A permanent record of daily production and of daily nitrate addition to the furnace shall be maintained and shall be available for inspection by the District, EPA or CARB. [District NSR Rule; District Rule 4354; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
3. All fiberglass shall contain a minimum of 30% by weight post-consumer cullet on an annual average basis. The facility shall maintain records of the annual amount (in tons) of post-consumer cullet used. [District Rule 2201] Federally Enforceable Through Title V Permit
4. With approval from EPA, CertainTeed Corporation may choose to conduct performance tests at production and firing rates less than maximum design capacity and may choose to test only the fuel expected to be used in the next 12-month time period, provided that actual plant production does not exceed the tested rate and provided that only the fuel for which tests have been performed is used. The emission rate for NOx established by the first test at the specific production rate (less than maximum plant capacity) shall become the applicable emission limit for NOx at the production rate tested, as in condition IX.B of PSD permit SJ 80-02. A fuel switch or an increase in production levels beyond the maximum tested rate for any product line requires approval by EPA prior to such production increases or fuel switch and may require additional performance testing. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
5. EPA shall be notified by letter 30 days prior to the fuel switch or production increase in order to make a determination of whether additional performance testing is required. In the case of an emergency fuel switch, EPA shall be notified by letter postmarked within 15 days of the fuel switch. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall not exceed 0.0015% by weight. [District Rules 2201 and 4354, Madera County Rule 404] Federally Enforceable Through Title V Permit
7. The rate of fuel oil consumption shall not exceed 570 gal/hr nor 5,000,000 gal/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Sulfur content of the fuel oil shall be determined by ASTM Method D-129, D-1552, D-6428, D-5453, or the most current method promulgated by ASTM. Other methods may be used if approved by EPA, Region 9 (Attention: A-3-3). [District Rule 4354, PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit
9. Certification of the sulfur content of each fuel oil delivery by the supplier will be acceptable; the analytical method used to determine sulfur content must be one of those cited. [PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. All natural gas used by the facility shall be PUC regulated. [District Rule 2201; PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit
11. A permanent record of daily production shall be maintained and shall be available for inspection by the District, EPA or CARB. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
12. Source tests shall be performed while operating at design capacity. To determine worst case emissions, the tests shall be performed while firing on natural gas, and separately while firing 0.0015% sulfur backup fuel oil. With prior EPA and District approval, source testing may be performed as otherwise provided. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
13. Source tests shall be performed at least on an annual basis, but not more than once every 18 months or sooner than every 6 months and at such other times as may be specified by the District or EPA. Tests shall comply with the procedures in 40 CFR (Part 60.8) for PM, NO_x, SO_x, and VOC. [District Rules 2520 and 4354, and PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
14. Source testing for NO_x from the final stack shall be performed under normal operating conditions at the time of the test. Testing shall be performed in the presence of nitrate additive if daily records indicate that nitrate is routinely used in the furnace during the period immediately prior to the test. If nitrate use is discontinued by the facility during normal operations, NO_x source testing shall be performed without nitrate additive in the furnace. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM shall be sampled according to the modified version of EPA's Method 5 which includes the impinger catch. [District Rule 2201; District Rule 4202; District Rule 2520; PSD ATC SJ 80-02; and 40 CFR 60 Subpart CC] Federally Enforceable Through Title V Permit
16. Source tests for PM shall be performed at the outlet of the dry ESP, the outlet of the three wet ESP's and the final stack. The source tests for NO_x, SO_x, and VOC shall be performed at the final stack. [District Rules 2201, 2520, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
17. During source testing, the arithmetic average of three (3) 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rule 4354]
18. During source testing, the arithmetic average of three (3) 60-consecutive-minute test runs shall be used to determine compliance with PM₁₀ emission limits. [District Rule 4354]
19. For a given pollutant, if two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the furnace, even if the averaged emissions of all three test runs is less than the applicable limit. [District Rule 4354]
20. The District and EPA (Attention: Air-5) shall be notified in writing 30 days in advance of the scheduled tests dates to allow time for the development of an approvable source test plan and to arrange for an observer to be present at the test. [District Rule 1081; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
21. The results of each source test shall be submitted to the District and EPA, Region 9 (Attention: Air-5) within 60 days after the test. [District Rule 1081; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
22. The outlets of the dry ESP and the final stack shall be so fitted as to permit performance of tests for pollutants (per 40 CFR 60, Appendix A) using portable equipment in a manner as approved by the EPA, CARB and the District. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The applicant shall maintain and operate CEM to measure stack gas NO_x concentration (per 40 CFR 60.13 and 40 CFR, Appendix B, Performance Spec. 2; and 40 CFR 60 Appendix F) and stack gas volumetric flow rate (per 40 CFR Part 52, Appendix E). [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
24. The applicant shall maintain and operate an opacity CEMS in the final stack to continuously measure the opacity of stack emissions. The opacity CEMS shall meet EPA specs. (40 CFR 60.13; and 40 CFR 60, Appendix B, Performance Specification 1) [PSD ATC SJ 80-02] 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.

25. The facility shall maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Results of continuous emissions monitoring shall 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] Federally Enforceable Through Title V Permit
28. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080] Federally Enforceable Through Title V Permit
29. CertainTeed Corporation shall submit to EPA (Attention: Air-5) a written report of all excess emissions for each calendar quarter. The report shall include the conditions specified in EPA Permit Special Conditions IX.J.4. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
30. CertainTeed shall continuously operate and maintain the caustic soda injection system for the pretreatment of the glass furnace gas stream upstream of the dry ESP. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
31. Both the caustic soda injection system (scrubber) and the dry electrostatic precipitator shall be functioning as air pollution abatement devices whenever the glass melting furnace is in operation. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
32. Dry Electrostatic Precipitator (ESP) outlet emissions shall not exceed 8.4 lbs PM/hr. [District Rules 2201 and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
33. When the furnace is heated with LPG/propane, final stack emissions shall not exceed 547.2 lb PM/day, 547.2 lb PM10/day, 432.0 lb HC/day, 432.0 lb VOC/day, 1,074.7 lb NOx/day, 322.4 lb SOx/day, or 1,072.8 lb CO/day. [District Rule 2201] Federally Enforceable Through Title V Permit
34. When the furnace is heated with natural gas, final stack emissions shall not exceed 22.8 lb PM/hr, 22.8 lb PM10/hr, 18.0 lb HC/hr, 18.0 lb VOC/hr, 55.9 lb NOx/hr, 24.3 lb SOx/hr, nor 44.7 lb CO/hr. [District Rules 2201, 4354, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
35. When the furnace is heated with fuel oil, final stack emissions shall not exceed 22.8 lb PM/hr, 22.8 lb PM10/hr, 18.0 lb HC/hr, 18.0 lb VOC/hr, 40.0 lb NOx/hr, 54.0 lb SOx/hr, nor 44.7 lb CO/hr. [District Rules 2201, 4354, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
36. During any day when nitrate is used in the furnace, final stack emissions shall not exceed 3.0 lb-NOx/ton of glass pulled on a block 24-hour average. During any day when nitrate is not used in the furnace, final stack emissions shall not exceed 1.45 lb-NOx/ton of glass pulled on a block 24-hour average. These emission limits shall not apply during periods of startup, shutdown, or idling, provided the facility complies with the requirements of Rule 4354, Sections 5.5, 5.6, 5.7, and 6.7. [District Rule 2201 and 4354] Federally Enforceable Through Title V Permit
37. Emissions from the glass melting furnace shall not exceed any of the emission limits of District Rule 4354, as follows: 0.90 lb SOx/short ton or glass pulled on a rolling 24-hour average, 0.50 lb-PM10/short ton pulled on a block 24-hour average, 1.0 lb CO/short ton of glass pulled as averaged over a three hour period, or 0.25 lb VOC/short ton of glass pulled as averaged over a three hour period. These emission limits shall not apply during periods of startup, shutdown, or idling, provided the facility complies with the requirements of Rule 4354, Sections 5.5, 5.6, 5.7, and 6.7. [District Rule 4354] 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.

38. Source testing to measure NO_x, SO_x, PM, CO, and VOC emissions from this unit shall be conducted while firing on fuel oil when this unit is fired on fuel oil during the previous 12 months from the date of the proposed source test. After demonstrating compliance on two consecutive annual source tests when the unit is fired on fuel oil, the unit shall be tested not less than once every 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emissions limits, the source testing frequency shall revert to at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Natural gas and propane consumption shall not exceed 3.55 million cubic feet per day and 1.295 trillion Btu in any 12 month period. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
40. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the furnace oxygen/fuel ratio at least once per hour. [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
41. The furnace oxygen/fuel ratio shall be greater than 1.7 to 1. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Normal range for the furnace oxygen/fuel ratio shall be re-established during each source test required by this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Results of the Continuous Parametric Monitoring System system shall be logged in one hour intervals for furnace oxygen/fuel ratio. [District Rule 1080] Federally Enforceable Through Title V Permit
44. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the caustic soda injection system's liquid flow rate and liquid specific gravity. [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
45. The caustic soda injection system's liquid flow rate shall not be lower than 0.5 gallons/minute. [District Rule 4354] Federally Enforceable Through Title V Permit
46. The caustic soda injection system's liquid specific gravity shall not be lower than 1.01. [District Rule 4354] Federally Enforceable Through Title V Permit
47. Results of the Continuous Parametric Monitoring System monitoring the liquid flow rate and liquid specific gravity of the caustic soda injection system shall be recorded every hour. [District Rule 1080] Federally Enforceable Through Title V Permit
48. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the secondary current and secondary voltage across each field of the dry electrostatic precipitator at least once per hour. [District Rules 1080 and 4354]
49. The hourly average total power input range into the electrostatic precipitator shall be determined at the next glass melting furnace source test for particulate matter. The hourly average total power input shall be the sum of the average power inputs to each field of the electrostatic precipitator. The average power inputs to each field shall be calculated by multiplying the hourly average secondary current for that field by the hourly average secondary voltage for that field, both recorded by the continuous monitoring system. [District Rule 4354]
50. If the measured average total power input into the electrostatic precipitator falls below the acceptable level specified within this permit, the permittee shall conduct a certified source test within 60 days to re-establish the acceptable secondary voltage and/or secondary current range/level. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average hourly voltage and/or current input to or above the minimum acceptable levels), show compliance has been re-established, and resume monitoring procedures. If the deviation is a result of a qualifying breakdown condition pursuant to District Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4354]
51. Results of the Continuous Parametric Monitoring System system shall be logged in one hour intervals for the dry electrostatic precipitator power. [District Rule 1080]

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

52. The permittee shall keep records of the date and time of the electrostatic precipitator total power input readings and the minimum electrostatic precipitator total power input measured during the source test that demonstrated ongoing compliance with the PM10 emission limit. [District Rule 4354]
53. The continuous parametric monitors specified in these permit conditions shall be installed, calibrated and operational prior to the next furnace source test. After the next furnace source test, the detection range of the Continuous Parametric Monitoring System shall be adjusted as necessary to accurately measure the resulting range of furnace oxygen/fuel ratio. [District Rule 2201] Federally Enforceable Through Title V Permit
54. The owner or operator shall submit a written report of furnace oxygen/fuel ratio Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess oxygen/fuel ratio, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the furnace oxygen/fuel ratio test period and used to determine compliance with the furnace oxygen/fuel ratio standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
55. The owner or operator shall submit a written report of the caustic soda injection system Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess of the caustic soda injection rate or specific gravity, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the caustic soda injection system flow rate and specific gravity test period and used to determine compliance with the caustic soda injection system flow rate and specific gravity standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
56. The owner or operator shall submit a written report of the dry electrostatic precipitator Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess of the dry electrostatic precipitator, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the dry electrostatic precipitator test period and used to determine compliance with the dry electrostatic precipitator standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
57. CertainTeed Corporation shall maintain and operate the following continuous emissions monitoring systems (CEMS) in the final stack: (1) a CEMS to measure stack gas NOx concentrations; (2) a CEMS to measure stack gas volumetric flow rates [District Rule 2201 and 4354; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
58. The NOx CEMS shall meet EPA monitoring performance specifications (40 CFR 60.13, 40 CFR 60, Appendix B, Performance Specification 2; and 40 CFR 60, Appendix F). [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
59. The volumetric flow rate CEMS shall meet EPA monitoring performance specifications (40 CFR 52, Appendix E). [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
60. In the quarterly excess emission reports, CertainTeed Corporation shall report all dates and times when process gases are vented to the bypass stack, CertainTeed Corporation shall also report the reason for each instance of venting to the bypass stack. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
61. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: District Rules 4201 (12/17/92) and 4202 (12/17/92); and Madera County Rule 404. A permit shield is granted from these requirements. [District Rule 2520] 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.

62. A record of each fuel consumption shall be maintained, kept onsite for at least five years and made available for inspection by EPA, CARB and the District upon request. [District 2520] Federally Enforceable Through Title V Permit
63. Source shall be in compliance with all requirements of District Rule 4354 by the end of startup as prescribed in Section 7.1 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
64. Furnace shutdown shall not exceed 20 days, measured from the time furnace operations drop below the idle thresholds specified in Section 3.17 of District Rule 4354 to when all emissions from the furnace cease. [District Rule 4354] Federally Enforceable Through Title V Permit
65. NO_x, CO and VOC emissions during idling shall not exceed the emissions limits as calculated in Section 5.7.2 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
66. Any source testing result, CEMS, or alternate emission monitoring method averaged value exceeding the applicable emission limits in Section 5.1, Section 5.2, Section 5.3, or Section 5.4 shall constitute a violation of the rule. [District Rule 4354] Federally Enforceable Through Title V Permit
67. The following test methods shall be used, NO_x: EPA Method 7E, 19, or ARB Method 100, CO: EPA Method 10 or ARB Method 100, VOC: EPA Method 25A expressed in terms of carbon or ARB Method 100. EPA Method 18 or ARB Method 422 shall be used to determine emissions of exempt compounds, SO_x: EPA Method 6C, EPA Method 8, or ARB Method 100. Alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
68. Stack gas oxygen, carbon dioxide, excess air, and dry molecular weight for source testing purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4354] Federally Enforceable Through Title V Permit
69. Stack gas velocity and volumetric flow rate for source testing purposes shall be determined using EPA Method 2. [District Rule 4354] Federally Enforceable Through Title V Permit
70. Permittee shall comply with Section 5.5 during startup. Startup exemption time shall not exceed 40 days, starting from the time of primary combustion system activation. [District Rule 4354] Federally Enforceable Through Title V Permit
71. The emission control systems (ECS) shall be in operation whenever technologically feasible during startup, idling and shutdown conditions. [District Rule 4354] Federally Enforceable Through Title V Permit
72. During startup, the stoichiometric ratio of the primary furnace combustion system shall not exceed 5% oxygen as calculated from the actual fuel and oxidant flow measurements for combustion in the furnace. [District Rule 4354] Federally Enforceable Through Title V Permit
73. Operator shall maintain daily records of the total hours of operation, type and quantity of fuel used in the furnace, the quantity of glass pulled from the furnace, NO_x emission rate in lb/ton of glass pulled. Operator shall maintain records of source tests and operating parameters established during initial source test, maintenance and repair, malfunction, and idling, start-up and shutdown. [District Rule 4354] Federally Enforceable Through Title V Permit
74. Permittee shall notify the District at least 24 hours before initiating idling, shutdown and startup and this notification shall include: date and time of the start of the exempt operation, reason for performing the operation, and an estimated completion date. The permittee shall notify the District by telephone within 24 hours after completion of the operation and shall maintain operating records and/or support documentation necessary to claim exemption. [District Rule 4354]
75. The pollutant mass emission rate in lb/hr shall be converted to lb pollutant/ton of glass pulled as specified in Rule 4354. The operator of a oxy-fuel fired furnace, oxygen-assisted combustion furnace, or a furnace utilizing any fuel oxidants other than 100% ambient air, shall submit to the APCO, ARB, and EPA for approval any methodologies and data that will be used to calculate emission rates for NO_x, CO, and VOC if the methods are different from those specified in Rule 4354. Unless the operator received prior written approval from APCO, ARB, and EPA of all the calculation methods to be used that are different from those specified in Rule 4354, compliance with the emissions limits cannot be fully demonstrated, and it shall be deemed to be a violation of the rule. [District Rule 4354]
76. The operator shall retain the records specified in this permit for a period of five years, make them available on site during normal business hours to the APCO, ARB, or EPA, and submit them to the APCO, ARB, or EPA upon request. [District Rule 4354] 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.

77. Excess emissions indicated by the CEM system shall be considered violations of the applicable emissions limits for the purposes of this permit. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
78. The owner or operator shall not discharge or cause to be discharged into the atmosphere in excess of 0.25 kilogram (kg) of filterable particulate matter (PM) per megagram (Mg) (0.5 pound [lb] of PM per ton) of glass pulled for each new or existing glass-melting furnace. [40 CFR 63, Subpart NNN and 40 CFR 60, Subpart CC] Federally Enforceable Through Title V Permit
79. The owner or operator must initiate corrective action within 1 hour when any 3-hour block average of the monitored dry electrostatic precipitator (DESP) parameter is outside the limit(s) established during the performance test as specified in Section 63.1384 and complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
80. The owner or operator must implement a QIP consistent with the compliance assurance monitoring provisions of 40 CFR part 64 subpart D when the monitored DESP parameter is outside the limit(s) established during the performance test as specified in Section 63.1384 for more than 5 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
81. The owner or operator must operate the DESP such that the monitored DESP parameter is not outside the limit(s) established during the performance test as specified in Section 63.1384 for more than 10 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
82. The owner or operator must initiate corrective action within 1 hour when the average glass pull rate of any 4-hour block period for glass melting furnaces equipped with continuous glass pull rate monitors, or daily glass pull rate for glass melting furnaces not so equipped, exceeds the average glass pull rate established during the performance test as specified in Section 63.1384, by greater than 20 percent and complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
83. The owner or operator must implement a QIP consistent with the compliance assurance monitoring provisions of 40 CFR part 64, subpart D when the glass pull rate exceeds, by more than 20 percent, the average glass pull rate established during the performance test as specified in Section 63.1384 for more than 5 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
84. The owner or operator must operate each glass-melting furnace such that the glass pull rate does not exceed, by more than 20 percent, the average glass pull rate established during the performance test as specified in Section 63.1384 for more than 10 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
85. The owner or operator of each wool fiberglass manufacturing facility must prepare for each glass-melting furnace, rotary spin manufacturing line a written operations, maintenance, and monitoring plan. The plan must be submitted to the Administrator for review and approval as part of the application for a part 70 permit. The plan must include the following information: Procedures for the proper operation and maintenance of process modifications and add-on control devices used to meet the emission limits in Section 63.1382; Procedures for the proper operation and maintenance of monitoring devices used to determine compliance, including quarterly calibration and certification of accuracy of each monitoring device according to the manufacturers's instructions; and Corrective actions to be taken when process parameters or add-on control device parameters deviate from the limit(s) established during initial performance tests. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
86. The owner or operator must monitor the DESP according to the procedures in the operations, maintenance, and monitoring plan. The operations, maintenance, and monitoring plan for the ESP must contain the following information: The ESP operating parameter(s), such as secondary voltage of each electrical field, to be monitored and the minimum and/or maximum value(s) that will be used to identify any operational problems; A schedule for monitoring the ESP operating parameter(s); Recordkeeping procedures, consistent with the recordkeeping requirements of Section 63.1386, to show that the ESP operating parameter(s) is within the limit(s) established during the performance test; and Procedures for the proper operation and maintenance of the ESP. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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87. The owner or operator of an existing glass-melting furnace equipped with continuous glass pull rate monitors must monitor and record the glass pull rate on an hourly basis. For glass-melting furnaces that are not equipped with continuous glass pull rate monitors, the glass pull rate must be monitored and recorded once per day. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
88. The owner or operator must monitor the established parameter(s) according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
89. The owner or operator must include as part of their operations, maintenance, and monitoring plan the following information: Procedures for the proper operation and maintenance of the process; Process parameter(s) to be monitored to demonstrate compliance with the applicable emission limits in Section 63.1382; Correlation(s) between process parameter(s) to be monitored and formaldehyde emissions; A schedule for monitoring the process parameter(s); and Recordkeeping procedures, consistent with the recordkeeping requirements of Section 63.1386, to show that the process parameter value(s) established during the performance test is not exceeded. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
90. For all control device and process operating parameters measured during the initial performance tests, the owners or operators of glass-melting furnaces subject to this subpart may change the limits established during the initial performance tests if additional performance testing is conducted to verify that, at the new control device or process parameter levels, they comply with the applicable emission limits in Section 63.1382. The owner or operator shall conduct all additional performance tests according to the procedures in this part 63, subpart A and in Section 63.1384. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
91. The owner or operator shall conduct a performance test for each existing and new glass-melting furnace. All monitoring systems and equipment must be installed, operational, and calibrated prior to the performance test. Unless a different frequency is specified in this section, the owner or operator must monitor and record process and/or add-on control device parameters at least every 15 minutes during the performance tests. The arithmetic average for each parameter must be calculated using all of the recorded measurements for the parameter. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
92. During each performance test, the owner or operator must monitor and record the glass pull rate for each glass-melting furnace and, if different, the glass pull rate for each rotary spin manufacturing line and flame attenuation manufacturing line. Record the glass pull rate every 15 minutes during any performance test required by this subpart and determine the arithmetic average of the recorded measurements for each test run and calculate the average of the three test runs. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
93. During the performance test, the owner or operator of a glass-melting furnace controlled by an DESP shall monitor and record the DESP parameter level(s), as specified in the operations, maintenance, and monitoring plan, and establish the minimum and/or maximum value(s) that will be used to demonstrate compliance after the initial performance test. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
94. To determine compliance with the PM emission limit for glass-melting furnaces, use the following equation: $E = (C \times Q \times K1)/P$, where: E = Emission rate of PM, kg/Mg (lb/ton) of glass pulled; C = Concentration of PM, g/dscm (gr/dscf); Q = Volumetric flow rate of exhaust gases, dscm/h (dscf/h); K1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr); and P = Average glass pull rate, Mg/h (tons/h). [40 CFR 63, Subpart NNN and 40 CFR 60, Subpart CC] Federally Enforceable Through Title V Permit
95. The owner or operator shall submit the following written initial notifications to the Administrator:(1) Notification of intention to construct a new major source or reconstruct a major source; of the date construction or reconstruction commenced; of the anticipated date of startup; of the actual date of startup, where the initial startup of a new or reconstructed source occurs after June 14, 2002, and for which an application for approval or construction or reconstruction is required (See Section 63.9(b)(4) and (5) of this part);(2) Notification of special compliance obligations;(3) Notification of performance test; and (4) Notification of compliance status. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
96. The owner or operator shall report the results of the initial performance test as part of the notification of compliance status. [40 CFR 63, Subpart NNN] 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.

97. The owner or operator shall develop and implement a written plan as described in Section 63.6(e)(3) of this part that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process modifications and control systems used to comply with the standard. In addition to the information required in Section 63.6(e)(3), the plan shall include:(i) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended;(ii) Corrective actions to be taken in the event of a malfunction of a control device or process modification, including procedures for recording the actions taken to correct the malfunction or minimize emissions; and(iii) A maintenance schedule for each control device and process modification that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance. The owner or operator shall also keep records of each event as required by Section 63.10(b) of this part and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in Section 63.10(e)(3)(iv) of this part. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
98. The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
99. The owner or operator shall maintain records of the following information: DESP parameter value(s) used to monitor DESP performance, including any period when the value(s) deviated from the established limit(s), the date and time of the deviation, when corrective actions were initiated, the cause of the deviation, an explanation of the corrective actions taken, and when the cause of the deviation was corrected; and Glass pull rate, including any period when the pull rate exceeded the average pull rate established during the performance test by more than 20 percent, the date and time of the exceedance, when corrective actions were initiated, the cause of the exceedance, an explanation of the corrective actions taken, and when the cause of the exceedance was corrected. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
100. The owner or operator shall report semiannually if measured emissions are in excess of the applicable standard or a monitored parameter deviates from the levels established during the performance test. The report shall contain the information specified in Section 63.10(c) of this part as well as the additional records required by the recordkeeping requirements of paragraph (d) of this section. When no deviations have occurred, the owner or operator shall submit a report stating that no excess emissions occurred during the reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Authority to Construct No.
(C-261-2-26)



AUTHORITY TO CONSTRUCT

PERMIT NO: C-261-2-26

ISSUANCE DATE: 03/03/2014

LEGAL OWNER OR OPERATOR: CERTAINTeed CORPORATION

MAILING ADDRESS: 17775 AVENUE 23 1/2
CHOWCHILLA, CA 93610

LOCATION: 17775 AVENUE 23 1/2
CHOWCHILLA, CA 93610

EQUIPMENT DESCRIPTION:

MODIFICATION OF 96 MMBTU/HR, 325 METRIC TONS/DAY GLASS MELTING OXY-FUEL FURNACE WITH 12 (8 MMBTU/HR EACH) COMBUSTION TEC. FLAT FLAME BURNERS AND A DRY ELECTROSTATIC PRECIPITATOR (DESP); REVISE PARTICULATE MATTER ALTERNATE MONITORING FROM MONITORING ELECTROSTATIC PRECIPITATOR SECONDARY VOLTAGE TO ELECTROSTATIC PRECIPITATOR AVERAGE TOTAL POWER (SECONDARY VOLTAGE AND SECONDARY CURRENT) AND SPECIFY VOC ALTERNATE MONITORING MEASUREMENTS TO BE PERFORMED ONCE PER HOUR

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. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
3. The glass melting furnace shall produce no more than either of the following limits: 325 metric tons/day or 118,625 metric tons/year. A permanent record of daily production and of daily nitrate addition to the furnace shall be maintained and shall be available for inspection by the District, EPA or CARB. [District NSR Rule; District Rule 4354; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
4. All fiberglass shall contain a minimum of 30% by weight post-consumer cullet on an annual average basis. The facility shall maintain records of the annual amount (in tons) of post-consumer cullet used. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 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

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5. With approval from EPA, CertainTeed Corporation may choose to conduct performance tests at production and firing rates less than maximum design capacity and may choose to test only the fuel expected to be used in the next 12-month time period; provided that actual plant production does not exceed the tested rate and provided that only the fuel for which tests have been performed is used. The emission rate for NO_x established by the first test at the specific production rate (less than maximum plant capacity) shall become the applicable emission limit for NO_x at the production rate tested, as in condition IX.B of PSD permit SJ 80-02. A fuel switch or an increase in production levels beyond the maximum tested rate for any product line requires approval by EPA prior to such production increases or fuel switch and may require additional performance testing. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
6. EPA shall be notified by letter 30 days prior to the fuel switch or production increase in order to make a determination of whether additional performance testing is required. In the case of an emergency fuel switch, EPA shall be notified by letter postmarked within 15 days of the fuel switch. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
7. The sulfur content of fuel oil shall not exceed 0.0015% by weight. [District Rules 2201 and 4354, Madera County Rule 404] Federally Enforceable Through Title V Permit
8. The rate of fuel oil consumption shall not exceed 570 gal/hr nor 5,000,000 gal/year. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Sulfur content of the fuel oil shall be determined by ASTM Method D-129, D-1552, D-6428, D-5453, or the most current method promulgated by ASTM. Other methods may be used if approved by EPA, Region 9 (Attention: A-3-3). [District Rule 4354, PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit
10. Certification of the sulfur content of each fuel oil delivery by the supplier will be acceptable; the analytical method used to determine sulfur content must be one of those cited. [PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit
11. All natural gas used by the facility shall be PUC regulated. [District Rule 2201; PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit
12. A permanent record of daily production shall be maintained and shall be available for inspection by the District, EPA or CARB. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
13. Source tests shall be performed while operating at design capacity. To determine worst case emissions, the tests shall be performed while firing on natural gas, and separately while firing 0.0015% sulfur backup fuel oil. With prior EPA and District approval, source testing may be performed as otherwise provided. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
14. Source tests shall be performed at least on an annual basis, but not more than once every 18 months or sooner than every 6 months and at such other times as may be specified by the District or EPA. Tests shall comply with the procedures in 40 CFR (Part 60.8) for PM, NO_x, SO_x, and VOC. [District Rules 2520 and 4354, and PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
15. Source testing for NO_x from the final stack shall be performed under normal operating conditions at the time of the test. Testing shall be performed in the presence of nitrate additive if daily records indicate that nitrate is routinely used in the furnace during the period immediately prior to the test. If nitrate use is discontinued by the facility during normal operations, NO_x source testing shall be performed without nitrate additive in the furnace. [District Rule 2201] Federally Enforceable Through Title V Permit
16. PM shall be sampled according to the modified version of EPA's Method 5 which includes the impinger catch. [District Rule 2201; District Rule 4202; District Rule 2520; PSD ATC SJ 80-02; and 40 CFR 60 Subpart CC] Federally Enforceable Through Title V Permit
17. Source tests for PM shall be performed at the outlet of the dry ESP, the outlet of the three wet ESP's and the final stack. The source tests for NO_x, SO_x, and VOC shall be performed at the final stack. [District Rules 2201, 2520, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
18. During source testing, the arithmetic average of three (3) 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rule 4354]

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19. During source testing, the arithmetic average of three (3) 60-consecutive-minute test runs shall be used to determine compliance with PM10 emission limits. [District Rule 4354]
20. For a given pollutant, if two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the furnace, even if the averaged emissions of all three test runs is less than the applicable limit. [District Rule 4354]
21. The District and EPA (Attention: Air-5) shall be notified in writing 30 days in advance of the scheduled tests dates to allow time for the development of an approvable source test plan and to arrange for an observer to be present at the test. [District Rule 1081; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
22. The results of each source test shall be submitted to the District and EPA, Region 9 (Attention: Air-5) within 60 days after the test. [District Rule 1081; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
23. The outlets of the dry ESP and the final stack shall be so fitted as to permit performance of tests for pollutants (per 40 CFR 60, Appendix A) using portable equipment in a manner as approved by the EPA, CARB and the District. [District Rule 1081] Federally Enforceable Through Title V Permit
24. The applicant shall maintain and operate CEM to measure stack gas NOx concentration (per 40 CFR 60.13 and 40 CFR, Appendix B, Performance Spec. 2; and 40 CFR 60 Appendix F) and stack gas volumetric flow rate (per 40 CFR Part 52, Appendix E). [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
25. The applicant shall maintain and operate an opacity CEMS in the final stack to continuously measure the opacity of stack emissions. The opacity CEMS shall meet EPA specs. (40 CFR 60.13; and 40 CFR 60, Appendix B, Performance Specification 1) [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
26. The facility shall maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Results of continuous emissions monitoring shall 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] Federally Enforceable Through Title V Permit
29. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080] Federally Enforceable Through Title V Permit
30. CertainTeed Corporation shall submit to EPA (Attention: Air-5) a written report of all excess emissions for each calendar quarter. The report shall include the conditions specified in EPA Permit Special Conditions IX.J.4. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
31. CertainTeed shall continuously operate and maintain the caustic soda injection system for the pretreatment of the glass furnace gas stream upstream of the dry ESP. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
32. Both the caustic soda injection system (scrubber) and the dry electrostatic precipitator shall be functioning as air pollution abatement devices whenever the glass melting furnace is in operation. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
33. Dry Electrostatic Precipitator (ESP) outlet emissions shall not exceed 8.4 lbs PM/hr. [District Rules 2201 and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
34. When the furnace is heated with LPG/propane, final stack emissions shall not exceed 547.2 lb PM/day, 547.2 lb PM10/day, 432.0 lb HC/day, 432.0 lb VOC/day, 1,074.7 lb NOx/day, 322.4 lb SOx/day, or 1,072.8 lb CO/day. [District Rule 2201] Federally Enforceable Through Title V Permit

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35. When the furnace is heated with natural gas, final stack emissions shall not exceed 22.8 lb PM/hr, 22.8 lb PM10/hr, 18.0 lb HC/hr, 18.0 lb VOC/hr, 55.9 lb NOx/hr, 24.3 lb SOx/hr, nor 44.7 lb CO/hr. [District Rules 2201, 4354, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
36. When the furnace is heated with fuel oil, final stack emissions shall not exceed 22.8 lb PM/hr, 22.8 lb PM10/hr, 18.0 lb HC/hr, 18.0 lb VOC/hr, 40.0 lb NOx/hr, 54.0 lb SOx/hr, nor 44.7 lb CO/hr. [District Rules 2201, 4354, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
37. During any day when nitrate is used in the furnace, final stack emissions shall not exceed 3.0 lb-NOx/ton of glass pulled on a block 24-hour average. During any day when nitrate is not used in the furnace, final stack emissions shall not exceed 1.45 lb-NOx/ton of glass pulled on a block 24-hour average. These emission limits shall not apply during periods of startup, shutdown, or idling, provided the facility complies with the requirements of Rule 4354, Sections 5.5, 5.6, 5.7, and 6.7. [District Rule 2201 and 4354] Federally Enforceable Through Title V Permit
38. Emissions from the glass melting furnace shall not exceed any of the emission limits of District Rule 4354, as follows: 0.90 lb SOx/short ton or glass pulled on a rolling 24-hour average, 0.50 lb-PM10/short ton pulled on a block 24-hour average, 1.0 lb CO/short ton of glass pulled as averaged over a three hour period, or 0.25 lb VOC/short ton of glass pulled as averaged over a three hour period. These emission limits shall not apply during periods of startup, shutdown, or idling, provided the facility complies with the requirements of Rule 4354, Sections 5.5, 5.6, 5.7, and 6.7. [District Rule 4354] Federally Enforceable Through Title V Permit
39. Source testing to measure NOx, SOx, PM, CO, and VOC emissions from this unit shall be conducted while firing on fuel oil when this unit is fired on fuel oil during the previous 12 months from the date of the proposed source test. After demonstrating compliance on two consecutive annual source tests when the unit is fired on fuel oil, the unit shall be tested not less than once every 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emissions limits, the source testing frequency shall revert to at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Natural gas and propane consumption shall not exceed 3.55 million cubic feet per day and 1.295 trillion Btu in any 12 month period. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
41. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the furnace oxygen/fuel ratio at least once per hour. [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
42. The furnace oxygen/fuel ratio shall be greater than 1.7 to 1. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Normal range for the furnace oxygen/fuel ratio shall be re-established during each source test required by this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Results of the Continuous Parametric Monitoring System shall be logged in one hour intervals for furnace oxygen/fuel ratio. [District Rule 1080] Federally Enforceable Through Title V Permit
45. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the caustic soda injection system's liquid flow rate and liquid specific gravity. [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
46. The caustic soda injection system's liquid flow rate shall not be lower than 0.5 gallons/minute. [District Rule 4354] Federally Enforceable Through Title V Permit
47. The caustic soda injection system's liquid specific gravity shall not be lower than 1.01. [District Rule 4354] Federally Enforceable Through Title V Permit
48. Results of the Continuous Parametric Monitoring System monitoring the liquid flow rate and liquid specific gravity of the caustic soda injection system shall be recorded every hour. [District Rule 1080] Federally Enforceable Through Title V Permit
49. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the secondary current and secondary voltage across each field of the dry electrostatic precipitator at least once per hour. [District Rules 1080 and 4354]

CONDITIONS CONTINUE ON NEXT PAGE

50. The hourly average total power input range into the electrostatic precipitator shall be determined at the next glass melting furnace source test for particulate matter. The hourly average total power input shall be the sum of the average power inputs to each field of the electrostatic precipitator. The average power inputs to each field shall be calculated by multiplying the hourly average secondary current for that field by the hourly average secondary voltage for that field, both recorded by the continuous monitoring system. [District Rule 4354]
51. If the measured average total power input into the electrostatic precipitator falls below the acceptable level specified within this permit, the permittee shall conduct a certified source test within 60 days to re-establish the acceptable secondary voltage and/or secondary current range/level. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average hourly voltage and/or current input to or above the minimum acceptable levels), show compliance has been re-established, and resume monitoring procedures. If the deviation is a result of a qualifying breakdown condition pursuant to District Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4354]
52. Results of the Continuous Parametric Monitoring System system shall be logged in one hour intervals for the dry electrostatic precipitator power. [District Rule 1080]
53. The permittee shall keep records of the date and time of the electrostatic precipitator total power input readings and the minimum electrostatic precipitator total power input measured during the source test that demonstrated ongoing compliance with the PM10 emission limit. [District Rule 4354]
54. The continuous parametric monitors specified in these permit conditions shall be installed, calibrated and operational prior to the next furnace source test. After the next furnace source test, the detection range of the Continuous Parametric Monitoring System shall be adjusted as necessary to accurately measure the resulting range of furnace oxygen/fuel ratio. [District Rule 2201] Federally Enforceable Through Title V Permit
55. The owner or operator shall submit a written report of furnace oxygen/fuel ratio Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess oxygen/fuel ratio, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the furnace oxygen/fuel ratio test period and used to determine compliance with the furnace oxygen/fuel ratio standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
56. The owner or operator shall submit a written report of the caustic soda injection system Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess of the caustic soda injection rate or specific gravity, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the caustic soda injection system flow rate and specific gravity test period and used to determine compliance with the caustic soda injection system flow rate and specific gravity standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
57. The owner or operator shall submit a written report of the dry electrostatic precipitator Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess of the dry electrostatic precipitator, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the dry electrostatic precipitator test period and used to determine compliance with the dry electrostatic precipitator standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

58. CertainTeed Corporation shall maintain and operate the following continuous emissions monitoring systems (CEMS) in the final stack: (1) a CEMS to measure stack gas NOx concentrations; (2) a CEMS to measure stack gas volumetric flow rates [District Rule 2201 and 4354; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
59. The NOx CEMS shall meet EPA monitoring performance specifications (40 CFR 60.13, 40 CFR 60, Appendix B, Performance Specification 2; and 40 CFR 60, Appendix F). [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
60. The volumetric flow rate CEMS shall meet EPA monitoring performance specifications (40 CFR 52, Appendix E). [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
61. In the quarterly excess emission reports, CertainTeed Corporation shall report all dates and times when process gases are vented to the bypass stack, CertainTeed Corporation shall also report the reason for each instance of venting to the bypass stack. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
62. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: District Rules 4201 (12/17/92) and 4202 (12/17/92); and Madera County Rule 404. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
63. A record of each fuel consumption shall be maintained, kept onsite for at least five years and made available for inspection by EPA, CARB and the District upon request. [District 2520] Federally Enforceable Through Title V Permit
64. Source shall be in compliance with all requirements of District Rule 4354 by the end of startup as prescribed in Section 7.1 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
65. Furnace shutdown shall not exceed 20 days, measured from the time furnace operations drop below the idle thresholds specified in Section 3.17 of District Rule 4354 to when all emissions from the furnace cease. [District Rule 4354] Federally Enforceable Through Title V Permit
66. NOx, CO and VOC emissions during idling shall not exceed the emissions limits as calculated in Section 5.7.2 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
67. Any source testing result, CEMS, or alternate emission monitoring method averaged value exceeding the applicable emission limits in Section 5.1, Section 5.2, Section 5.3, or Section 5.4 shall constitute a violation of the rule. [District Rule 4354] Federally Enforceable Through Title V Permit
68. The following test methods shall be used, NOx: EPA Method 7E, 19, or ARB Method 100, CO: EPA Method 10 or ARB Method 100, VOC: EPA Method 25A expressed in terms of carbon or ARB Method 100. EPA Method 18 or ARB Method 422 shall be used to determine emissions of exempt compounds, SOx: EPA Method 6C, EPA Method 8, or ARB Method 100. Alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
69. Stack gas oxygen, carbon dioxide, excess air, and dry molecular weight for source testing purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4354] Federally Enforceable Through Title V Permit
70. Stack gas velocity and volumetric flow rate for source testing purposes shall be determined using EPA Method 2. [District Rule 4354] Federally Enforceable Through Title V Permit
71. Permittee shall comply with Section 5.5 during startup. Startup exemption time shall not exceed 40 days, starting from the time of primary combustion system activation. [District Rule 4354] Federally Enforceable Through Title V Permit
72. The emission control systems (ECS) shall be in operation whenever technologically feasible during startup, idling and shutdown conditions. [District Rule 4354] Federally Enforceable Through Title V Permit
73. During startup, the stoichiometric ratio of the primary furnace combustion system shall not exceed 5% oxygen as calculated from the actual fuel and oxidant flow measurements for combustion in the furnace. [District Rule 4354] Federally Enforceable Through Title V Permit
74. Operator shall maintain daily records of the total hours of operation, type and quantity of fuel used in the furnace, the quantity of glass pulled from the furnace, NOx emission rate in lb/ton of glass pulled. Operator shall maintain records of source tests and operating parameters established during initial source test, maintenance and repair, malfunction, and idling, start-up and shutdown. [District Rule 4354] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

75. Permittee shall notify the District at least 24 hours before initiating idling, shutdown and startup and this notification shall include: date and time of the start of the exempt operation, reason for performing the operation, and an estimated completion date. The permittee shall notify the District by telephone within 24 hours after completion of the operation and shall maintain operating records and/or support documentation necessary to claim exemption. [District Rule 4354]
76. The pollutant mass emission rate in lb/hr shall be converted to lb pollutant/ton of glass pulled as specified in Rule 4354. The operator of a oxy-fuel fired furnace, oxygen-assisted combustion furnace, or a furnace utilizing any fuel oxidants other than 100% ambient air, shall submit to the APCO, ARB, and EPA for approval any methodologies and data that will be used to calculate emission rates for NO_x, CO, and VOC if the methods are different from those specified in Rule 4354. Unless the operator received prior written approval from APCO, ARB, and EPA of all the calculation methods to be used that are different from those specified in Rule 4354, compliance with the emissions limits cannot be fully demonstrated, and it shall be deemed to be a violation of the rule. [District Rule 4354]
77. The operator shall retain the records specified in this permit for a period of five years, make them available on site during normal business hours to the APCO, ARB, or EPA, and submit them to the APCO, ARB, or EPA upon request. [District Rule 4354] Federally Enforceable Through Title V Permit
78. Excess emissions indicated by the CEM system shall be considered violations of the applicable emissions limits for the purposes of this permit. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
79. The owner or operator shall not discharge or cause to be discharged into the atmosphere in excess of 0.25 kilogram (kg) of filterable particulate matter (PM) per megagram (Mg) (0.5 pound [lb] of PM per ton) of glass pulled for each new or existing glass-melting furnace. [40 CFR 63, Subpart NNN and 40 CFR 60, Subpart CC] Federally Enforceable Through Title V Permit
80. The owner or operator must initiate corrective action within 1 hour when any 3-hour block average of the monitored dry electrostatic precipitator (DESP) parameter is outside the limit(s) established during the performance test as specified in Section 63.1384 and complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
81. The owner or operator must implement a QIP consistent with the compliance assurance monitoring provisions of 40 CFR part 64 subpart D when the monitored DESP parameter is outside the limit(s) established during the performance test as specified in Section 63.1384 for more than 5 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
82. The owner or operator must operate the DESP such that the monitored DESP parameter is not outside the limit(s) established during the performance test as specified in Section 63.1384 for more than 10 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
83. The owner or operator must initiate corrective action within 1 hour when the average glass pull rate of any 4-hour block period for glass melting furnaces equipped with continuous glass pull rate monitors, or daily glass pull rate for glass melting furnaces not so equipped, exceeds the average glass pull rate established during the performance test as specified in Section 63.1384, by greater than 20 percent and complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
84. The owner or operator must implement a QIP consistent with the compliance assurance monitoring provisions of 40 CFR part 64, subpart D when the glass pull rate exceeds, by more than 20 percent, the average glass pull rate established during the performance test as specified in Section 63.1384 for more than 5 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
85. The owner or operator must operate each glass-melting furnace such that the glass pull rate does not exceed, by more than 20 percent, the average glass pull rate established during the performance test as specified in Section 63.1384 for more than 10 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

86. The owner or operator of each wool fiberglass manufacturing facility must prepare for each glass-melting furnace, rotary spin manufacturing line a written operations, maintenance, and monitoring plan. The plan must be submitted to the Administrator for review and approval as part of the application for a part 70 permit. The plan must include the following information: Procedures for the proper operation and maintenance of process modifications and add-on control devices used to meet the emission limits in Section 63.1382; Procedures for the proper operation and maintenance of monitoring devices used to determine compliance, including quarterly calibration and certification of accuracy of each monitoring device according to the manufacturers's instructions; and Corrective actions to be taken when process parameters or add-on control device parameters deviate from the limit(s) established during initial performance tests. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
87. The owner or operator must monitor the DESP according to the procedures in the operations, maintenance, and monitoring plan. The operations, maintenance, and monitoring plan for the ESP must contain the following information: The ESP operating parameter(s), such as secondary voltage of each electrical field, to be monitored and the minimum and/or maximum value(s) that will be used to identify any operational problems; A schedule for monitoring the ESP operating parameter(s); Recordkeeping procedures, consistent with the recordkeeping requirements of Section 63.1386, to show that the ESP operating parameter(s) is within the limit(s) established during the performance test; and Procedures for the proper operation and maintenance of the ESP. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
88. The owner or operator of an existing glass-melting furnace equipped with continuous glass pull rate monitors must monitor and record the glass pull rate on an hourly basis. For glass-melting furnaces that are not equipped with continuous glass pull rate monitors, the glass pull rate must be monitored and recorded once per day. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
89. The owner or operator must monitor the established parameter(s) according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
90. The owner or operator must include as part of their operations, maintenance, and monitoring plan the following information: Procedures for the proper operation and maintenance of the process; Process parameter(s) to be monitored to demonstrate compliance with the applicable emission limits in Section 63.1382; Correlation(s) between process parameter(s) to be monitored and formaldehyde emissions; A schedule for monitoring the process parameter(s); and Recordkeeping procedures, consistent with the recordkeeping requirements of Section 63.1386, to show that the process parameter value(s) established during the performance test is not exceeded. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
91. For all control device and process operating parameters measured during the initial performance tests, the owners or operators of glass-melting furnaces subject to this subpart may change the limits established during the initial performance tests if additional performance testing is conducted to verify that, at the new control device or process parameter levels, they comply with the applicable emission limits in Section 63.1382. The owner or operator shall conduct all additional performance tests according to the procedures in this part 63, subpart A and in Section 63.1384. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
92. The owner or operator shall conduct a performance test for each existing and new glass-melting furnace. All monitoring systems and equipment must be installed, operational, and calibrated prior to the performance test. Unless a different frequency is specified in this section, the owner or operator must monitor and record process and/or add-on control device parameters at least every 15 minutes during the performance tests. The arithmetic average for each parameter must be calculated using all of the recorded measurements for the parameter. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
93. During each performance test, the owner or operator must monitor and record the glass pull rate for each glass-melting furnace and, if different, the glass pull rate for each rotary spin manufacturing line and flame attenuation manufacturing line. Record the glass pull rate every 15 minutes during any performance test required by this subpart and determine the arithmetic average of the recorded measurements for each test run and calculate the average of the three test runs. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
94. During the performance test, the owner or operator of a glass-melting furnace controlled by an DESP shall monitor and record the DESP parameter level(s), as specified in the operations, maintenance, and monitoring plan, and establish the minimum and/or maximum value(s) that will be used to demonstrate compliance after the initial performance test. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

95. To determine compliance with the PM emission limit for glass-melting furnaces, use the following equation: $E = (C \times Q \times K1)/P$, where: E = Emission rate of PM, kg/Mg (lb/ton) of glass pulled; C = Concentration of PM, g/dscm (gr/dscf); Q = Volumetric flow rate of exhaust gases, dscm/h (dscf/h); K1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr); and P = Average glass pull rate, Mg/h (tons/h). [40 CFR 63, Subpart NNN and 40 CFR 60, Subpart CC] Federally Enforceable Through Title V Permit
96. The owner or operator shall submit the following written initial notifications to the Administrator:(1) Notification of intention to construct a new major source or reconstruct a major source; of the date construction or reconstruction commenced; of the anticipated date of startup; of the actual date of startup, where the initial startup of a new or reconstructed source occurs after June 14, 2002, and for which an application for approval or construction or reconstruction is required (See Section 63.9(b)(4) and (5) of this part);(2) Notification of special compliance obligations;(3) Notification of performance test; and (4) Notification of compliance status. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
97. The owner or operator shall report the results of the initial performance test as part of the notification of compliance status. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
98. The owner or operator shall develop and implement a written plan as described in Section 63.6(e)(3) of this part that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process modifications and control systems used to comply with the standard. In addition to the information required in Section 63.6(e)(3), the plan shall include:(i) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended;(ii) Corrective actions to be taken in the event of a malfunction of a control device or process modification, including procedures for recording the actions taken to correct the malfunction or minimize emissions; and(iii) A maintenance schedule for each control device and process modification that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance. The owner or operator shall also keep records of each event as required by Section 63.10(b) of this part and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in Section 63.10(e)(3)(iv) of this part. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
99. The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
100. The owner or operator shall maintain records of the following information: DESP parameter value(s) used to monitor DESP performance, including any period when the value(s) deviated from the established limit(s), the date and time of the deviation, when corrective actions were initiated, the cause of the deviation, an explanation of the corrective actions taken, and when the cause of the deviation was corrected; and Glass pull rate, including any period when the pull rate exceeded the average pull rate established during the performance test by more than 20 percent, the date and time of the exceedance, when corrective actions were initiated, the cause of the exceedance, an explanation of the corrective actions taken, and when the cause of the exceedance was corrected. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
101. The owner or operator shall report semiannually if measured emissions are in excess of the applicable standard or a monitored parameter deviates from the levels established during the performance test. The report shall contain the information specified in Section 63.10(c) of this part as well as the additional records required by the recordkeeping requirements of paragraph (d) of this section. When no deviations have occurred, the owner or operator shall submit a report stating that no excess emissions occurred during the reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

ATTACHMENT C

Application

San Joaquin Valley Air Pollution Control District

www.valleyair.org

RECEIVED

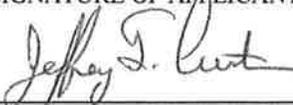
MAY 13 2014

Permit Application For:

Permits Services

[] ADMINISTRATIVE AMENDMENT [X] MINOR MODIFICATION [] SIGNIFICANT MODIFICATION

SJVAPCD

1. PERMIT TO BE ISSUED TO: <u>CertainTeed Corporation</u>	
2. MAILING ADDRESS:	
STREET/P.O. BOX: <u>17775 Avenue 23 1/2</u>	
CITY: <u>Chowchilla</u> STATE: <u>CA</u>	9-DIGIT ZIP CODE: <u>93610</u>
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:	INSTALLATION DATE:
STREET: <u>Same as above</u> CITY: _____	1979
_____/4 SECTION TOWNSHIP RANGE _____	
4. GENERAL NATURE OF BUSINESS: <u>Fiberglass production</u>	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary)	
<u>C-261-2-26: Change to Rule 4354 parametric monitoring requirements</u>	
6. TYPE OR PRINT NAME OF APPLICANT:	TITLE OF APPLICANT:
<u>Jeff Curtin</u>	<u>Environmental Engineer</u>
7. SIGNATURE OF APPLICANT:	DATE:
	<u>MAY 12, 2014</u>
	PHONE: (559) 665-4831
	FAX: (559) 665-3321
	EMAIL: <u>jeff.t.curtin@saint-gobain.com</u>

For APCD Use Only:

DATE STAMP	FILING FEE RECEIVED: \$ _____ CHECK#: _____ DATE PAID: _____ PROJECT NO: <u>C-1141522</u> FACILITY ID: <u>C-261</u>
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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)

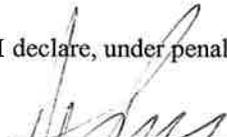
- SIGNIFICANT PERMIT MODIFICATION ADMINISTRATIVE
 MINOR PERMIT MODIFICATION AMENDMENT

COMPANY NAME: CertainTeed Corporation	FACILITY ID: C - 261
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: CertainTeed Corporation	
3. Agent to the Owner:	

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

- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- 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:



Signature of Responsible Official

5/12/14

Date

Matthew Prue

Name of Responsible Official (please print)

Plant Manager

Title of Responsible Official (please print)

ATTACHMENT D

Previous Title V Operating Permit No.
(C-261-2-24)

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-261-2-24

EXPIRATION DATE: 05/31/2016

EQUIPMENT DESCRIPTION:

96 MMBTU/HR, 325 METRIC TONS/DAY GLASS MELTING OXY-FUEL FURNACE WITH 12 (8 MMBTU/HR EACH) COMBUSTION TEC. FLAT FLAME BURNERS AND A DRY ELECTROSTATIC PRECIPITATOR (DESP)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
2. The glass melting furnace shall produce no more than either of the following limits: 325 metric tons/day or 118,625 metric tons/year. A permanent record of daily production and of daily nitrate addition to the furnace shall be maintained and shall be available for inspection by the District, EPA or CARB. [District NSR Rule; District Rule 4354; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
3. All fiberglass shall contain a minimum of 30% by weight post-consumer cullet on an annual average basis. The facility shall maintain records of the annual amount (in tons) of post-consumer cullet used. [District Rule 2201] Federally Enforceable Through Title V Permit
4. With approval from EPA, CertainTeed Corporation may choose to conduct performance tests at production and firing rates less than maximum design capacity and may choose to test only the fuel expected to be used in the next 12-month time period, provided that actual plant production does not exceed the tested rate and provided that only the fuel for which tests have been performed is used. The emission rate for NOx established by the first test at the specific production rate (less than maximum plant capacity) shall become the applicable emission limit for NOx at the production rate tested, as in condition IX.B of PSD permit SJ 80-02. A fuel switch or an increase in production levels beyond the maximum tested rate for any product line requires approval by EPA prior to such production increases or fuel switch and may require additional performance testing. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
5. EPA shall be notified by letter 30 days prior to the fuel switch or production increase in order to make a determination of whether additional performance testing is required. In the case of an emergency fuel switch, EPA shall be notified by letter postmarked within 15 days of the fuel switch. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall not exceed 0.0015% by weight. [District Rules 2201 and 4354, Madera County Rule 404] Federally Enforceable Through Title V Permit
7. The rate of fuel oil consumption shall not exceed 570 gal/hr nor 5,000,000 gal/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Sulfur content of the fuel oil shall be determined by ASTM Method D-129, D-1552, D-6428, D-5453, or the most current method promulgated by ASTM. Other methods may be used if approved by EPA, Region 9 (Attention: A-3-3). [District Rule 4354, PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit
9. Certification of the sulfur content of each fuel oil delivery by the supplier will be acceptable; the analytical method used to determine sulfur content must be one of those cited. [PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. All natural gas used by the facility shall be PUC regulated. [District Rule 2201; PSD ATC SJ 80-02; Madera County Rule 404] Federally Enforceable Through Title V Permit
11. A permanent record of daily production shall be maintained and shall be available for inspection by the District, EPA or CARB. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
12. Source tests shall be performed while operating at design capacity. To determine worst case emissions, the tests shall be performed while firing on natural gas, and separately while firing 0.0015% sulfur backup fuel oil. With prior EPA and District approval, source testing may be performed as otherwise provided. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
13. Source tests shall be performed at least on an annual basis, but not more than once every 18 months or sooner than every 6 months and at such other times as may be specified by the District or EPA. Tests shall comply with the procedures in 40 CFR (Part 60.8) for PM, NO_x, SO_x, and VOC. [District Rules 2520 and 4354, and PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
14. Source testing for NO_x from the final stack shall be performed under normal operating conditions at the time of the test. Testing shall be performed in the presence of nitrate additive if daily records indicate that nitrate is routinely used in the furnace during the period immediately prior to the test. If nitrate use is discontinued by the facility during normal operations, NO_x source testing shall be performed without nitrate additive in the furnace. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM shall be sampled according to the modified version of EPA's Method 5 which includes the impinger catch. [District Rule 2201; District Rule 4202; District Rule 2520; PSD ATC SJ 80-02; and 40 CFR 60 Subpart CC] Federally Enforceable Through Title V Permit
16. Source tests for PM shall be performed at the outlet of the dry ESP, the outlet of the three wet ESP's and the final stack. The source tests for NO_x, SO_x, and VOC shall be performed at the final stack. [District Rules 2201, 2520, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
17. The District and EPA (Attention: Air-5) shall be notified in writing 30 days in advance of the scheduled tests dates to allow time for the development of an approvable source test plan and to arrange for an observer to be present at the test. [District Rule 1081; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District and EPA, Region 9 (Attention: Air-5) within 60 days after the test. [District Rule 1081; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
19. The outlets of the dry ESP and the final stack shall be so fitted as to permit performance of tests for pollutants (per 40 CFR 60, Appendix A) using portable equipment in a manner as approved by the EPA, CARB and the District. [District Rule 1081] Federally Enforceable Through Title V Permit
20. The applicant shall maintain and operate CEM to measure stack gas NO_x concentration (per 40 CFR 60.13 and 40 CFR, Appendix B, Performance Spec. 2; and 40 CFR 60 Appendix F) and stack gas volumetric flow rate (per 40 CFR Part 52, Appendix E). [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
21. The applicant shall maintain and operate an opacity CEMS in the final stack to continuously measure the opacity of stack emissions. The opacity CEMS shall meet EPA specs. (40 CFR 60.13; and 40 CFR 60, Appendix B, Performance Specification 1) [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
22. The facility shall maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
23. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
24. Results of continuous emissions monitoring shall 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] Federally Enforceable Through Title V Permit

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25. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080] Federally Enforceable Through Title V Permit
26. CertainTeed Corporation shall submit to EPA (Attention: Air-5) a written report of all excess emissions for each calendar quarter. The report shall include the conditions specified in EPA Permit Special Conditions IX.J.4. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
27. CertainTeed shall continuously operate and maintain the caustic soda injection system for the pretreatment of the glass furnace gas stream upstream of the dry ESP. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
28. Both the caustic soda injection system (scrubber) and the dry electrostatic precipitator shall be functioning as air pollution abatement devices whenever the glass melting furnace is in operation. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
29. Dry Electrostatic Precipitator (ESP) outlet emissions shall not exceed 8.4 lbs PM/hr. [District Rules 2201 and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
30. When the furnace is heated with LPG/propane, final stack emissions shall not exceed 547.2 lb PM/day, 547.2 lb PM10/day, 432.0 lb HC/day, 432.0 lb VOC/day, 1,074.7 lb NOx/day, 322.4 lb SOx/day, or 1,072.8 lb CO/day. [District Rule 2201] Federally Enforceable Through Title V Permit
31. When the furnace is heated with natural gas, final stack emissions shall not exceed 22.8 lb PM/hr, 22.8 lb PM10/hr, 18.0 lb HC/hr, 18.0 lb VOC/hr, 55.9 lb NOx/hr, 24.3 lb SOx/hr, nor 44.7 lb CO/hr. [District Rules 2201, 4354, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
32. When the furnace is heated with fuel oil, final stack emissions shall not exceed 22.8 lb PM/hr, 22.8 lb PM10/hr, 18.0 lb HC/hr, 18.0 lb VOC/hr, 40.0 lb NOx/hr, 54.0 lb SOx/hr, nor 44.7 lb CO/hr. [District Rules 2201, 4354, and 4202; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
33. During any day when nitrate is used in the furnace, final stack emissions shall not exceed 3.0 lb-NOx/ton of glass pulled on a block 24-hour average. During any day when nitrate is not used in the furnace, final stack emissions shall not exceed 1.45 lb-NOx/ton of glass pulled on a block 24-hour average. These emission limits shall not apply during periods of startup, shutdown, or idling, provided the facility complies with the requirements of Rule 4354, Sections 5.5, 5.6, 5.7, and 6.7. [District Rule 2201 and 4354] Federally Enforceable Through Title V Permit
34. Emissions from the glass melting furnace shall not exceed any of the emission limits of District Rule 4354, as follows: 0.90 lb SOx/short ton or glass pulled on a rolling 24-hour average, 0.50 lb-PM10/short ton pulled on a block 24-hour average, 1.0 lb CO/short ton of glass pulled as averaged over a three hour period, or 0.25 lb VOC/short ton of glass pulled as averaged over a three hour period. These emission limits shall not apply during periods of startup, shutdown, or idling, provided the facility complies with the requirements of Rule 4354, Sections 5.5, 5.6, 5.7, and 6.7. [District Rule 4354] Federally Enforceable Through Title V Permit
35. Source testing to measure NOx, SOx, PM, CO, and VOC emissions from this unit shall be conducted while firing on fuel oil when this unit is fired on fuel oil during the previous 12 months from the date of the proposed source test. After demonstrating compliance on two consecutive annual source tests when the unit is fired on fuel oil, the unit shall be tested not less than once every 36 months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emissions limits, the source testing frequency shall revert to at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Natural gas and propane consumption shall not exceed 3.55 million cubic feet per day and 1.295 trillion Btu in any 12 month period. [District Rule 2201; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
37. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the furnace oxygen/fuel ratio. [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
38. The furnace oxygen/fuel ratio shall be greater than 1.7 to 1. [District Rule 2201] Federally Enforceable Through Title V Permit

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39. Normal range for the furnace oxygen/fuel ratio shall be re-established during each source test required by this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Results of the Continuous Parametric Monitoring System system shall be logged in one hour intervals for furnace oxygen/fuel ratio. [District Rule 1080] Federally Enforceable Through Title V Permit
41. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the caustic soda injection system's liquid flow rate and liquid specific gravity. [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
42. The caustic soda injection system's liquid flow rate shall not be lower than 0.5 gallons/minute. [District Rule 4354] Federally Enforceable Through Title V Permit
43. The caustic soda injection system's liquid specific gravity shall not be lower than 1.01. [District Rule 4354] Federally Enforceable Through Title V Permit
44. Results of the Continuous Parametric Monitoring System monitoring the liquid flow rate and liquid specific gravity of the caustic soda injection system shall be recorded every hour. [District Rule 1080] Federally Enforceable Through Title V Permit
45. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Parametric Monitoring System which continuously measures and records the voltage of the dry electrostatic precipitator. [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
46. The dry electrostatic precipitator voltage shall not drop below 1,800 V for more than 6 continuous minutes. [District Rule 4354] Federally Enforceable Through Title V Permit
47. Results of the Continuous Parametric Monitoring System monitoring the dry electrostatic precipitator voltage shall be recorded at least four times per hour. [District Rule 1080] Federally Enforceable Through Title V Permit
48. The continuous parametric monitors specified in these permit conditions shall be installed, calibrated and operational prior to the next furnace source test. After the next furnace source test, the detection range of the Continuous Parametric Monitoring System shall be adjusted as necessary to accurately measure the resulting range of furnace oxygen/fuel ratio. [District Rule 2201] Federally Enforceable Through Title V Permit
49. The owner or operator shall submit a written report of furnace oxygen/fuel ratio Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess oxygen/fuel ratio, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the furnace oxygen/fuel ratio test period and used to determine compliance with the furnace oxygen/fuel ratio standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
50. The owner or operator shall submit a written report of the caustic soda injection system Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess of the caustic soda injection rate or specific gravity, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the caustic soda injection system flow rate and specific gravity test period and used to determine compliance with the caustic soda injection system flow rate and specific gravity standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit

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51. The owner or operator shall submit a written report of the dry electrostatic precipitator Continuous Parametric Monitoring System operations 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 the following: Time intervals, data and magnitude of excess of the dry electrostatic precipitator, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the dry electrostatic precipitator test period and used to determine compliance with the dry electrostatic precipitator standard; Applicable time and date of each period during which the Continuous Parametric Monitoring System was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
52. CertainTeed Corporation shall maintain and operate the following continuous emissions monitoring systems (CEMS) in the final stack: (1) a CEMS to measure stack gas NOx concentrations; (2) a CEMS to measure stack gas volumetric flow rates [District Rule 2201 and 4354; PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
53. The NOx CEMS shall meet EPA monitoring performance specifications (40 CFR 60.13, 40 CFR 60, Appendix B, Performance Specification 2; and 40 CFR 60, Appendix F). [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
54. The volumetric flow rate CEMS shall meet EPA monitoring performance specifications (40 CFR 52, Appendix E). [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
55. In the quarterly excess emission reports, CertainTeed Corporation shall report all dates and times when process gases are vented to the bypass stack, CertainTeed Corporation shall also report the reason for each instance of venting to the bypass stack. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
56. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: District Rules 4201 (12/17/92) and 4202 (12/17/92); and Madera County Rule 404. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
57. A record of each fuel consumption shall be maintained, kept onsite for at least five years and made available for inspection by EPA, CARB and the District upon request. [District 2520] Federally Enforceable Through Title V Permit
58. Source shall be in compliance with all requirements of District Rule 4354 by the end of startup as prescribed in Section 7.1 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
59. Furnace shutdown shall not exceed 20 days, measured from the time furnace operations drop below the idle thresholds specified in Section 3.17 of District Rule 4354 to when all emissions from the furnace cease. [District Rule 4354] Federally Enforceable Through Title V Permit
60. NOx, CO and VOC emissions during idling shall not exceed the emissions limits as calculated in Section 5.7.2 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
61. Any source testing result, CEMS, or alternate emission monitoring method averaged value exceeding the applicable emission limits in Section 5.1, Section 5.2, Section 5.3, or Section 5.4 shall constitute a violation of the rule. [District Rule 4354] Federally Enforceable Through Title V Permit
62. The following test methods shall be used, NOx: EPA Method 7E, 19, or ARB Method 100, CO: EPA Method 10 or ARB Method 100, VOC: EPA Method 25A expressed in terms of carbon or ARB Method 100. EPA Method 18 or ARB Method 422 shall be used to determine emissions of exempt compounds, SOx: EPA Method 6C, EPA Method 8, or ARB Method 100. Alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
63. Stack gas oxygen, carbon dioxide, excess air, and dry molecular weight for source testing purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4354] Federally Enforceable Through Title V Permit
64. Stack gas velocity and volumetric flow rate for source testing purposes shall be determined using EPA Method 2. [District Rule 4354] Federally Enforceable Through Title V Permit
65. Permittee shall comply with Section 5.5 during startup. Startup exemption time shall not exceed 40 days, starting from the time of primary combustion system activation. [District Rule 4354] Federally Enforceable Through Title V Permit

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66. The emission control systems (ECS) shall be in operation whenever technologically feasible during startup, idling and shutdown conditions. [District Rule 4354] Federally Enforceable Through Title V Permit
67. During startup, the stoichiometric ratio of the primary furnace combustion system shall not exceed 5% oxygen as calculated from the actual fuel and oxidant flow measurements for combustion in the furnace. [District Rule 4354] Federally Enforceable Through Title V Permit
68. Operator shall maintain daily records of the total hours of operation, type and quantity of fuel used in the furnace, the quantity of glass pulled from the furnace, NOx emission rate in lb/ton of glass pulled. Operator shall maintain records of source tests and operating parameters established during initial source test, maintenance and repair, malfunction, and idling, start-up and shutdown. [District Rule 4354] Federally Enforceable Through Title V Permit
69. The operator shall retain the records specified in this permit for a period of five years, make them available on site during normal business hours to the APCO, ARB, or EPA, and submit them to the APCO, ARB, or EPA upon request. [District Rule 4354] Federally Enforceable Through Title V Permit
70. Excess emissions indicated by the CEM system shall be considered violations of the applicable emissions limits for the purposes of this permit. [PSD ATC SJ 80-02] Federally Enforceable Through Title V Permit
71. The owner or operator shall not discharge or cause to be discharged into the atmosphere in excess of 0.25 kilogram (kg) of filterable particulate matter (PM) per megagram (Mg) (0.5 pound [lb] of PM per ton) of glass pulled for each new or existing glass-melting furnace. [40 CFR 63, Subpart NNN and 40 CFR 60, Subpart CC] Federally Enforceable Through Title V Permit
72. The owner or operator must initiate corrective action within 1 hour when any 3-hour block average of the monitored dry electrostatic precipitator (DESP) parameter is outside the limit(s) established during the performance test as specified in Section 63.1384 and complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
73. The owner or operator must implement a QIP consistent with the compliance assurance monitoring provisions of 40 CFR part 64 subpart D when the monitored DESP parameter is outside the limit(s) established during the performance test as specified in Section 63.1384 for more than 5 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
74. The owner or operator must operate the DESP such that the monitored DESP parameter is not outside the limit(s) established during the performance test as specified in Section 63.1384 for more than 10 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
75. The owner or operator must initiate corrective action within 1 hour when the average glass pull rate of any 4-hour block period for glass melting furnaces equipped with continuous glass pull rate monitors, or daily glass pull rate for glass melting furnaces not so equipped, exceeds the average glass pull rate established during the performance test as specified in Section 63.1384, by greater than 20 percent and complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
76. The owner or operator must implement a QIP consistent with the compliance assurance monitoring provisions of 40 CFR part 64, subpart D when the glass pull rate exceeds, by more than 20 percent, the average glass pull rate established during the performance test as specified in Section 63.1384 for more than 5 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
77. The owner or operator must operate each glass-melting furnace such that the glass pull rate does not exceed, by more than 20 percent, the average glass pull rate established during the performance test as specified in Section 63.1384 for more than 10 percent of the total operating time in a 6-month block reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

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78. The owner or operator of each wool fiberglass manufacturing facility must prepare for each glass-melting furnace, rotary spin manufacturing line a written operations, maintenance, and monitoring plan. The plan must be submitted to the Administrator for review and approval as part of the application for a part 70 permit. The plan must include the following information: Procedures for the proper operation and maintenance of process modifications and add-on control devices used to meet the emission limits in Section 63.1382; Procedures for the proper operation and maintenance of monitoring devices used to determine compliance, including quarterly calibration and certification of accuracy of each monitoring device according to the manufacturers's instructions; and Corrective actions to be taken when process parameters or add-on control device parameters deviate from the limit(s) established during initial performance tests. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
79. The owner or operator must monitor the DESP according to the procedures in the operations, maintenance, and monitoring plan. The operations, maintenance, and monitoring plan for the ESP must contain the following information: The ESP operating parameter(s), such as secondary voltage of each electrical field, to be monitored and the minimum and/or maximum value(s) that will be used to identify any operational problems; A schedule for monitoring the ESP operating parameter(s); Recordkeeping procedures, consistent with the recordkeeping requirements of Section 63.1386, to show that the ESP operating parameter(s) is within the limit(s) established during the performance test; and Procedures for the proper operation and maintenance of the ESP. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
80. The owner or operator of an existing glass-melting furnace equipped with continuous glass pull rate monitors must monitor and record the glass pull rate on an hourly basis. For glass-melting furnaces that are not equipped with continuous glass pull rate monitors, the glass pull rate must be monitored and recorded once per day. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
81. The owner or operator must monitor the established parameter(s) according to the procedures in the operations, maintenance, and monitoring plan. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
82. The owner or operator must include as part of their operations, maintenance, and monitoring plan the following information: Procedures for the proper operation and maintenance of the process; Process parameter(s) to be monitored to demonstrate compliance with the applicable emission limits in Section 63.1382; Correlation(s) between process parameter(s) to be monitored and formaldehyde emissions; A schedule for monitoring the process parameter(s); and Recordkeeping procedures, consistent with the recordkeeping requirements of Section 63.1386, to show that the process parameter value(s) established during the performance test is not exceeded. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
83. For all control device and process operating parameters measured during the initial performance tests, the owners or operators of glass-melting furnaces subject to this subpart may change the limits established during the initial performance tests if additional performance testing is conducted to verify that, at the new control device or process parameter levels, they comply with the applicable emission limits in Section 63.1382. The owner or operator shall conduct all additional performance tests according to the procedures in this part 63, subpart A and in Section 63.1384. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
84. The owner or operator shall conduct a performance test for each existing and new glass-melting furnace. All monitoring systems and equipment must be installed, operational, and calibrated prior to the performance test. Unless a different frequency is specified in this section, the owner or operator must monitor and record process and/or add-on control device parameters at least every 15 minutes during the performance tests. The arithmetic average for each parameter must be calculated using all of the recorded measurements for the parameter. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
85. During each performance test, the owner or operator must monitor and record the glass pull rate for each glass-melting furnace and, if different, the glass pull rate for each rotary spin manufacturing line and flame attenuation manufacturing line. Record the glass pull rate every 15 minutes during any performance test required by this subpart and determine the arithmetic average of the recorded measurements for each test run and calculate the average of the three test runs. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

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86. During the performance test, the owner or operator of a glass-melting furnace controlled by an DESP shall monitor and record the DESP parameter level(s), as specified in the operations, maintenance, and monitoring plan, and establish the minimum and/or maximum value(s) that will be used to demonstrate compliance after the initial performance test. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
87. To determine compliance with the PM emission limit for glass-melting furnaces, use the following equation: $E = (C \times Q \times K1)/P$, where: E = Emission rate of PM, kg/Mg (lb/ton) of glass pulled; C = Concentration of PM, g/dscm (gr/dscf); Q = Volumetric flow rate of exhaust gases, dscm/h (dscf/h); K1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr); and P = Average glass pull rate, Mg/h (tons/h). [40 CFR 63, Subpart NNN and 40 CFR 60, Subpart CC] Federally Enforceable Through Title V Permit
88. The owner or operator shall submit the following written initial notifications to the Administrator:(1) Notification of intention to construct a new major source or reconstruct a major source; of the date construction or reconstruction commenced; of the anticipated date of startup; of the actual date of startup, where the initial startup of a new or reconstructed source occurs after June 14, 2002, and for which an application for approval or construction or reconstruction is required (See Section 63.9(b)(4) and (5) of this part);(2) Notification of special compliance obligations;(3) Notification of performance test; and (4) Notification of compliance status. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
89. The owner or operator shall report the results of the initial performance test as part of the notification of compliance status. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
90. The owner or operator shall develop and implement a written plan as described in Section 63.6(e)(3) of this part that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process modifications and control systems used to comply with the standard. In addition to the information required in Section 63.6(e)(3), the plan shall include:(i) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended;(ii) Corrective actions to be taken in the event of a malfunction of a control device or process modification, including procedures for recording the actions taken to correct the malfunction or minimize emissions; and(iii) A maintenance schedule for each control device and process modification that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance. The owner or operator shall also keep records of each event as required by Section 63.10(b) of this part and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in Section 63.10(e)(3)(iv) of this part. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
91. The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
92. The owner or operator shall maintain records of the following information: DESP parameter value(s) used to monitor DESP performance, including any period when the value(s) deviated from the established limit(s), the date and time of the deviation, when corrective actions were initiated, the cause of the deviation, an explanation of the corrective actions taken, and when the cause of the deviation was corrected; and Glass pull rate, including any period when the pull rate exceeded the average pull rate established during the performance test by more than 20 percent, the date and time of the exceedance, when corrective actions were initiated, the cause of the exceedance, an explanation of the corrective actions taken, and when the cause of the exceedance was corrected. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit
93. The owner or operator shall report semiannually if measured emissions are in excess of the applicable standard or a monitored parameter deviates from the levels established during the performance test. The report shall contain the information specified in Section 63.10(c) of this part as well as the additional records required by the recordkeeping requirements of paragraph (d) of this section. When no deviations have occurred, the owner or operator shall submit a report stating that no excess emissions occurred during the reporting period. [40 CFR 63, Subpart NNN] Federally Enforceable Through Title V Permit

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